Natural Gas Monthly May 1998

Energy Information Administration

Office of Oil and Gas U.S. Department of Energy Washington, DC 20585

Electronic Publishing System (EPUB) User Instructions

EPUB is an electronic publishing system maintained by the Energy Information Administration of the U.S. Department of Energy. EPUB allows the general public to electronically access selected energy data from many of EIA's statistical reports. The system is a menu-driven, bulletin board type system with extensive online help capabilities that can be accessed free of charge 24 hours a day by using a terminal or PC with an asynchronous modem. (EPUB will be taken down briefly at midnight for backup.)

CONFIGURING YOUR PC SOFTWARE

PC users must provide the following information to their communications software in order to successfully access the EPUB system. Consult your communications software documentation for information on how to correctly configure your software.

Communication Parameters: BAUD RATE: 300 - 2400 bps DATA BITS: 8 STOP BITS: 1 PARITY: NONE DUPLEX: FULL

TERMINAL TYPE: examples: ANSI, ANSI-BBS, VT100

ACCESS PHONE NUMBER

Once your communications software and/or hardware has been configured, you can access EPUB by dialing (202) 586-2557.

USING EPUB

When a connection to the system has been made, some users may find that the menu-driven instructions and the online help capabilities will provide enough information to effectively use EPUB. If needed, more extensive information may be found in the *EPUB Users Guide*, which is available online from the *EPUB system* or from:

National Energy Information Center, EI-231
Energy Information Administration
Forrestal Building, Room 1F-048
Washington, DC 20585
(202) 586-8800
Hours: 9:00 a.m. to 5:00 p.m. Eastern Time, Monday through Friday
Telecommunications device for the hearing-impaired only:
(202)586-1181. Hours 9:00 a.m. to 5:00 p.m. Eastern Time, Monday through Friday.

EPUB ASSISTANCE:

For communications or technical assistance, call (202) 586-8959, 8:00 a.m. to 5:00 p.m. Eastern Time, Monday through Friday.

For questions about the content of EPUB reports, call (202) 586-8800, 8:00 a.m. to 5:00 p.m. Eastern Time, Monday through Friday.

EPUB PROVIDES SELECTED DATA FROM THE FOLLOWING EIA PUBLICATIONS:

Heating fuel data, (April through September) updated the 2nd week of the month

Oxygenate data, updated approximately 15 working days after the end of the report month

Weekly Petroleum Status Report, updated on Wednesdays (Thursday in event of a holiday) at 9:00 a.m.

Petroleum Supply Monthly, updated on the 20th of the month

Petroleum Marketing Monthly, updated on the 20th of the month

Winter Fuels Report, propane inventory data updated Wednesdays at 5:00 p.m. All other data updated on Thursdays (Friday in event of a holiday) at 5:00 p.m. (October through March)

Natural Gas Monthly, updated on the 20th of the month

Weekly Coal Production, updated on Fridays at 5:00 p.m.

Quarterly Coal Report, updated 60 days after the end of the quarter

Electric Power Monthly, updated on the 1st of the month

Monthly Energy Review, updated the last week of the month

Short Term Energy Outlook, updated 60 days after the end of the quarter

Preface

The *Natural Gas Monthly (NGM)* is prepared in the Natural Gas Division, Office of Oil and Gas, Energy Information Administration (EIA), U.S. Department of Energy (DOE), under the direction of Joan E. Heinkel.

General questions and comments regarding the *NGM* may be referred to Ann M. Ducca (202) 586-6137. Specific technical questions may be referred to the appropriate persons listed in Appendix E.

The *NGM* highlights activities, events, and analyses of interest to public and private sector organizations associated with the natural gas industry. Volume and price data are presented each month for natural gas production, distribution, consumption, and interstate pipeline activities. Producer-related activities and underground storage data are also reported. From time to time, the *NGM* features articles designed to assist readers in using and interpreting natural gas information.

The data in this publication are collected on surveys conducted by the EIA to fulfill its responsibilities for gathering and reporting energy data. Some of the data are collected under the authority of the Federal Energy Regulatory Commission (FERC), an independent commission within the DOE, which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. Geographic coverage is the 50 States and the District of Columbia.

Explanatory Notes supplement the information found in tables of the report. A description of the data collection surveys that support the *NGM* is provided in the Data Sources section. A glossary of the terms used in this report is also provided to assist readers in understanding the data presented in this publication.

All natural gas volumes are reported at a pressure base of 14.73 pounds per square inch absolute (psia) and at 60 degrees Fahrenheit. Cubic feet are converted to cubic meters by applying a factor of 0.02831685.

Common Abbreviations Used in the Natural Gas Monthly

AGA	American Gas Association	IOGCC	Interstate Oil and Gas Compact Commission		
Bbl	Barrels	LNG	Liquefied Natural Gas		
BLS	Bureau of Labor Statistics, U.S. Depart-		•		
	ment of Labor	Mcf	Thousand Cubic Feet		
Bcf	Billion Cubic Feet	MMBtu	Million British Thermal Units		
BOM	Bureau of Mines, U.S. Department of the	MMcf	Million Cubic Feet		
	Interior	MMS	United States Minerals Management		
Btu	British Thermal Unit		Service, U.S. Department of the Interior		
DOE	U.S. Department of Energy	NGL	Natural Gas Liquids		
DOI	U.S. Department of the Interior	OCS	Outer Continental Shelf		
EIA	Energy Information Administration,	STIFS	Short-Term Integrated Forecasting Sys-		
	U.S. Department of Energy		tem		
FERC	Federal Energy Regulatory Commission	STEO	Short Term Energy Outlook		
		Tcf	Trillion Cubic Feet		

Contents

Special Focus: "Deliverability on the Interstate Natural Gas Pipeline System, Executive Summary"	
Appendices A. Explanatory Notes B. Data Sources C. Statistical Considerations D. Natural Gas Reports and Feature Articles E. Technical Contacts F. Natural Gas Electronic Products Glossary Glossary	vii
A. Explanatory Notes B. Data Sources C. Statistical Considerations D. Natural Gas Reports and Feature Articles E. Technical Contacts F. Natural Gas Electronic Products Glossary Glossary	1
B. Data Sources	
	75 83 89 95 99 101
Tables	105
	Page
	Ü
1. Summary of Natural Gas Production in the United States, 1992-1998	9
2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998	10
3. Natural Gas Consumption in the United States, 1992-1998	12
4. Selected National Average Natural Gas Prices, 1991-1997	14
5. U.S. Natural Gas Imports, by Country, 1992-1998	16 17
 U.S. Natural Gas Exports, by Country, 1992-1998 Marketed Production of Natural Gas, by State, 1991-1997 	18
8. Gross Withdrawals and Marketed Production of Natural Gas by State, January 1998	21
9. Underground Natural Gas Storage - All Operators, 1992-1998	22
10. Underground Natural Gas Storage - by Season, 1995-1998	24
11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1996-1998	25
12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1996-1998	26
13. Net Withdrawals from Underground Storage, by State, 1996-1998	27
14. Activities of Underground Natural Gas Storage Operators, by State, March 1998	31
15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1997	32
16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1997	36
17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1997	40
18. Natural Gas Deliveries to Electric Utility Consumers, by State, 1996-1997	44
19. Natural Gas Deliveries to All Consumers, by State, 1996-1997	48
20. Average City Gate Price, by State, 1996-1997	52
21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1997	55
 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1997 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1997 	58 61
24. Average Price of Natural Gas Sold to Hidustrial Consumers, by State, 1996-1997	61 64

25.	Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1997	67
A1.	Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data	77
C1	Standard Error for Natural Gas Deliveries and Price to Consumers by State January 1998	92

Illustrations

		Pa	ıge
1.	Production and Consumption of Natural Gas in the United States, 1995-1999		11
2.	Natural Gas Deliveries to Consumers in the United States, 1994-1998		13
3.	Average Price of Natural Gas Delivered to Consumers in the United States, 1993-1997		15
4.	Average Price of Natural Gas in the United States, 1993-1997		15
5.	Underground Natural Gas Storage in the United States, 1995-1998		23
6.	Percentage of Total Deliveries Represented by Onsystem Sales, 1993-1997		73

Deliverability on the Interstate Natural Gas Pipeline System Executive Summary

The following article is the Executive Summary from the recently published report *Deliverability on the Interstate Natural Gas Pipeline System*, DOE/EIA-0618(98), prepared by the Office of Oil and Gas of the Energy Information Administration (EIA). The report may be accessed electronically from EIA's World Wide Web Site at http://www.eia.doe.gov/oil_gas/natural_gas/analysis_publications/deliverability/deliver.html. Printed copies of the report are available from the U.S. Government Printing Office (202) 512-1800 or through EIA's National Energy Information Center, Forrestal Building, Room 1F-048, Washington, DC 20585 (202) 586-8800.

Deliverability on the Interstate Natural Gas Pipeline System examines the capability of the interstate pipeline network to move natural gas to various markets within the United States, highlighting the changes that have occurred since 1990. Significant changes have occurred in the natural industry since the Energy Information Administration (EIA) published the predecessor to this report in 1992.1 Fundamental changes in industry structure were imposed with the issuance of Order 636 in 1992 by the Federal Energy Regulatory Commission that allowed market forces and competition to become the primary factors influencing change in the natural gas marketplace. Several new concepts in natural gas trading and distribution have developed, such as the market center, and changes have been made in how certain network resources are being used in support of these system changes, such as open access to underground storage capacity.

For the most part, these changes have been positive. Total U.S. natural gas consumption has increased by 17 percent since 1990, marketed production has increased by 6 percent, net imports have nearly doubled, and the interstate pipeline system has increased in size and capability. Overall growth in the pipeline network has occurred in both its deliverability and usage levels. For instance, between 1990 and the end of 1996:

• Deliverability (capacity) on the interstate pipeline system increased by more than 15 percent, or 10.9 billion cubic feet per day, at regional borders (Table SF1). The largest increase in interregional deliverability was to the Western Region, with an additional 3.2 billion cubic feet (Bcf) per day, or 45 percent (Figure SF1). The second largest increase was 2.4 Bcf per day, 24 percent, into the Northeast Region. The development of so much capacity in the

West led to a surplus of capacity and an overall drop in the pipeline capacity usage rate, whereas in the Northeast, demand growth fully supported the increase. In fact, pipelines into the Northeast saw a substantial increase in average daily usage rates, up 6 percentage points from 1990 levels.

- Pipeline utilization rates also increased, by 7 percentage points, reaching a high of 75 percent (on an average day) in 1996. This increase in interregional pipeline use, occurring simultaneously with a major increase in pipeline capacity, would seem to indicate that demand for natural gas was growing faster than new capacity was being added and that, in some areas, occasional bottlenecks or periodic capacity constraints might have occurred or were developing. In other areas, the increase in pipeline usage rates simply reflected a greater use of existing capacity that had been previously underutilized because of overbuilding or a temporary dropoff in demand.
- Reflecting its growing role in the U.S. natural gas market, Canadian import capacity into the United States increased by 69 percent, or 4.5 billion cubic feet per day. It also represents the largest portion of new interregional pipeline capacity proposed for development during the next several years. Although it is unlikely that all projects will be built, more than 7.7 Bcf per day of import capacity expansion has been proposed, most of it feeding into the U.S. Midwest and Northeast regions. To a great degree, the proposals are driven by producers in Western Canada seeking markets for that region's expanding production capability. Plans to develop fields in the Sable Island area off the east coast of Canada have also triggered a need to find markets for that production as well. (Between 1990 and 1996, Canadian marketed natural gas production increased at an 8-percent annual rate, while natural gas end-use consumption in Canada increased at

¹Energy Information Administration, *Capacity and Service on the Interstate Natural Gas Pipeline System 1990: Regional Profiles and Analyses*, DOE/EIA-0556 (Washington, DC, June 1992).

Table SF1. Regional Summary of Changes in Interstate Pipeline Capacity, 1990-1996, and Planned Additions, 1997-2000

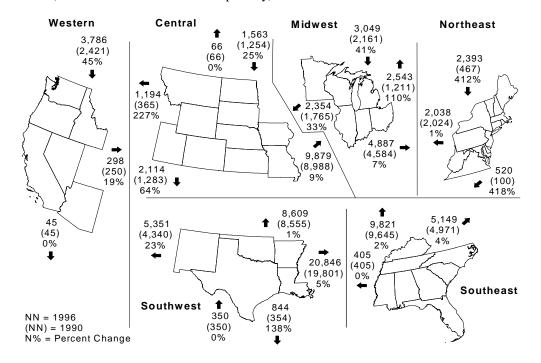
		Ent	ering the	Region ^a (MN	lcf/d)		Within the Region ^b (MMcf/d)						
Region	Capacity End of 1990	Capacity End of 1996	Percent Change 1990-96	Estimated Capacity Added in 1997	Proposed Additions to Capacity 1998-2000 ^c	Percent Change 1996- 2000		Capacity End of 1996	Percent Change 1990	Estimated Capacity Added in 1997	Proposed Additions to Capacity 1998-2000	Percent Change 1996- 2000	
Central	11,824	12,824	8	3	3,012	23	20,754	23,593	14	1,143	1,081	9	
Midwest	22,818	24,787	9	306	5,306	21	23,354	23,151	10	820	2,721	15	
Northeast	10,009	12,403	24	24	4,973	40	29,261	32,966	13	364	5,037	16	
Southeast	19,914	21,393	7	0	438	2	47,788	51,128	7	436	1,999	5	
Southwest	2,048	2,869	40	180	115	10	43,583	45,072	3	2,341	1,461	8	
Western	7,126	10,331	45	0	326	3	9,924	15,489	56	13	193	1	
U.S. Total	73,739	84,606	15	513	14,170	17	174,664	191,399	10	3,874	12,492	9	
Canada	1,277	2,609	104	0	1,300	50	NA	NA	NA	NA	NA	NA	
Mexico	399	889	123	237	1,375	181	NA	NA	NA	NA	NA	NA	

alnoludes only the sum of capacity levels for the States and Canadian Provinces bounding the respective region.

MMcf/d = Million cubic feet per day. NA = Not available.

Sources: Capacity: Energy Information Administration (EIA), EIAGIS-NG Geographic Information System, Natural Gas Pipeline State Border Capacity Database, as of December 1997. Capacity Additions: EIAGIS-NG Geographic Information System, Natural Gas Pipeline Construction Database, as of March 1998, compiled from Federal Energy Regulatory Commission, Natural Gas Act Section 7(c) Filings, "Application for Certificate of Public Convenience and Necessity," and various natural gas industry news sources.

Figure SF1. Region-to-Region Natural Gas Pipeline Capacity, 1990 and 1996 (Volumes in Million Cubic Feet per Day)



Source: Energy Information Administration (EIA), EIAGIS-NG Geographic Information System, Natural Gas Pipeline State Border Capacity Database, as of December 1997.

^bRepresents the sum of the interstate pipeline capacity, or planned capacity, on a State-to-State basis as measured at individual State border crossing points, exclusive of capacities "Entering the Region." Does not include projects that are entirely within one State. Gulf of Mexico projects are considered within the Southwest or Southeast region.

[°]Proposed capacity has been counted in only one region even though some projects may cross regional boundaries. In the case of a new line, the additional capacity has been included within the region in which it terminates. For an expansion project, the added capacity is included in the region where most of the expansion effort is focused.

only a 3.5-percent rate, thus the desire to expand export capabilities.)

Growth and changes in deliverability on the natural gas network have also resulted in some shifts in transportation corridors and access to production areas. Deliverability out of the Rocky Mountain area is increasing as producers there are seeking customers in expanding markets, such as the U.S. Midwest, to supplement their traditional markets in the Western Region. Likewise, producers and pipeline companies in the areas of West Texas and New Mexico have also shifted a larger portion of their capabilities toward Eastern markets.

In 1997, at least 41 natural gas pipeline projects were completed and placed in service in the United States, adding 6.3 Bcf per day of capacity overall, with 0.5 Bcf per day of that representing added interregional deliverability and 3.9 Bcf intraregional deliverability (Table SF1). A major portion of the new pipeline capacity represented increased receipt capability in expanding supply regions. For instance, the largest projects were in the Gulf of Mexico (3.2 Bcf per day) as offshore and deepwater development efforts in the area continue to expand. In addition, several major projects were completed that expanded access to the Wind River and Powder River basins of the Rocky Mountain area by almost 0.7 Bcf per day. The first new export lines to Mexico to be completed in 5 years were also placed in service during 1997. The increase in pipeline utilization levels since 1990 can be attributed in part to new trading and shipping arrangements that evolved with the introduction of pipeline open-access transportation and storage. The increased opportunities for trading, variable routing of gas shipments, and the development of new services to complement and expedite network operations have done much to improve the efficiency and utilization of available capacity. Several factors can be cited as contributing to the improvement, including:

- Development of a release market for pipeline capacity, whereby unused firm capacity can be sublet by other shippers. The pipeline capacity release market reached a level of about 3.6 trillion cubic feet in 1996 (the equivalent of 16 percent of available capacity). Before FERC Order 636, there was only limited experience with capacity brokering, which had been authorized by the Federal Energy Regulatory Commission in 1989.
- Development of market centers. Since 1990, when only one formal market center/hub was operational (the Henry Hub in Louisiana), more than 36 market centers have developed at strategic points within the North American pipeline grid. These centers have

contributed significantly to providing shippers greater access to lowest-cost gas supplies. Shippers now use market centers for rerouting gas supplies from one pipeline to another and also for access to services, such as short-term gas loans and parking, that facilitate gas trading and improve pipeline capacity usage. The Henry Hub, the Chicago Center (Illinois), and the Leidy Hub (Pennsylvania) are the three most active market centers in the United States today.

- Improved access to underground storage. Open access to underground storage services, mandated in Order 636, has also played a large role in improving the quality of transacting business on the natural gas pipeline network. The major trend in underground storage growth has been the increasing development of high-deliverability facilities, mostly salt cavern sites, which are designed to permit rapid access and turnover of stored inventory. These types of sites have become closely associated with market centers as they complement the short-term parking and loaning services offered by these centers. Since 1993, daily deliverability from salt cavern and other types of high-deliverability storage facilities has grown to represent more than 15 percent of total underground storage daily withdrawal capability, up from 10 percent. Practically all salt cavern storage sites are accessible from market centers.
- Availability of electronic trading. Another growing feature of the new natural gas marketplace is the increased use of computer-based electronic trading. Although there are only a few dominant systems in this marketplace, the number of trades conducted via electronic trading has grown steadily during the past several years. These systems bring together gas traders, capacity seller/buyers, and others at a number of optional points on the pipeline grid and assist the parties in carrying out their transactions. Most of the major market centers/hubs in North America, as well as a number of the most active spot-market trading points on the pipeline grid, are accessible to traders. Not to be forgotten, however, is trading on the non-electronic spot market, which still accounts for the large majority of trading activity covering short-term buying and selling of natural gas. Currently there are more than 120 trading points within the national pipeline network at which trading is conducted by openmarket traders.

In the market for pipeline capacity, shippers prefer longterm contracts (a year or more in length) over short-term contracts and firm rather than interruptible transportation services. During the 12 months ended March 31, 1997, about 78 percent of capacity was reserved under firm transportation contracts. However, not all of that capacity was used by the contract holders and, in addition, substantial firm transportation capacity is unsubscribed and available to shippers (27 trillion Btu per day, or 21 percent of maximum capability in 1997). Although this uncommitted capacity may not suit the needs of a particular shipper because of its location or term etc., it could support additional market growth beyond current levels. Shippers also have access to additional transportation services in which deliveries may not necessarily be guaranteed by the pipeline company. These services include capacity release and interruptible transportation service and are available to shippers depending on the actual use of the pipeline system by firm transportation customers. Marketers are the most active in the short-term and capacity release markets because these markets provide the flexibility to meet varying and unexpected demand levels.

Outlook

Based upon EIA natural gas consumption projections, the market for natural gas will continue to grow steadily into the next century. EIA forecasts about a 2-percent annual growth rate during the next 10 years (1999-2008). Excluding demand in the supply areas, this translates into a projected increase in consumption of nearly 1.2 trillion cubic feet by the year 2001.

In fact, the extensive number of currently planned capacity additions and expansion projects indicates that substantial activity is underway to address these potential increases in demand. If all the projects currently proposed through 2000 were built, interregional capacity would increase by as much as 14.7 billion cubic feet (Bcf) per day, or about 17 percent, from the level in 1996. Additional projects that are limited to providing service within a specific region comprise an additional 15.3 Bcf per day of capacity.

Natural gas consumption is projected to grow at a 5-percent annual rate in the Southeast Region through 2008, supported by anticipated growth in electric utility and industrial markets for natural gas. Markets in the Northeast and Midwest are projected to expand at

annual rates of only 3.3 and 1.6 percent, respectively. Current proposals to expand pipeline capacity into these regions between 1998 and 2000 amount to the equivalent of about 10.7 Bcf per day, with 5.3 Bcf per day directed to the Midwest, 5.0 Bcf to the Northeast, and 0.4 Bcf to the Southeast.

Based on current expansion proposals, the most extensive development of new capacity during the next several years will occur along the Canadian corridors. At least four new pipelines and several expansions are planned that will expand deliverability from Canada to the U.S. Midwest and Northeast markets and also to Canadian domestic markets. These lines will improve access to natural gas supplies in Western Canada and also create a new corridor to bring production from the developing fields off the coast of Eastern Canada (Sable Island) to Canadian and U.S. markets. These expansions could add between 5.9 and 7.0 Bcf per day to U.S. import capacity from Canada during the next 3 years along these corridors, an increase of more than 52 percent over 1997 levels.

Current interregional and State-to-State capacity levels, in most instances, appear to be adequate to meet current customer demands, although in a few instances average daily pipeline utilization rates increased significantly between 1990 and 1996. This rise in usage is a strong indicator that instances of peak-period capacity constraint could begin to occur if demand for natural gas in the affected markets were to increase at a faster rate than expected. Also, while the amount of new capacity proposed for the next several years appears to be adequate, and in some instances more than adequate, to meet forecasted demand, there will probably be some local areas with capacity constraints.

The capability of the pipeline network to transport and deliver gas from supply areas to ultimate consumers has grown measurably since 1990, and the quality and flexibility of service has improved as well. Substantial further growth in system capability is expected in light of the many expansion projects scheduled for completion during the next few years. Further integration, improved services, and more inter-connections along the grid should also help accommodate anticipated future demand.

Highlights

Overview

This issue of the *Natural Gas Monthly* presents the most recent estimates of natural gas data from the Energy Information Administration (EIA). Estimates extend through May 1998 for many data series. This issue also contains a reprint of the Executive Summary of the EIA report, "Deliverability on the Interstate Natural Gas Pipeline System." The report examines the capability of the interstate pipeline network to move natural gas to various markets within the United States.

Highlights of the data contained in this issue of the *Natural Gas Monthly* are:

- Cumulatively through May 1998, domestic production and net imports of natural gas are estimated to be somewhat higher than in 1997, 0.7 and 4.2 percent, respectively.
- Net injections of natural gas into underground storage facilities have been strong during April and May 1998, the first 2 months of the refill season. Cumulatively, net injections during these 2 months exceed those of 1997 by 64 percent.
- Cumulative end-use consumption through May 1998 is estimated to be 2.6 percent lower than in 1997.
- The national average wellhead price in February 1998 is estimated to be \$1.64 per thousand cubic feet, 33 percent lower than in February 1997.

Supply

Based on preliminary estimates through May 1998, both domestic production and net imports of natural gas are somewhat higher than last year at this time. Net injections into storage have also been strong at the beginning of the 1998 refill season (April through October), resulting in more than adequate supplies of working gas in underground storage facilities.

Dry natural gas production in May 1998 is estimated to be 1,631 billion cubic feet, or 52.6 billion cubic feet per day (Table 1). This is slightly higher than the production rates in April 1998 and in May 1997. Cumulatively for January through May 1998, dry production is 0.7 percent higher than for the same period in 1997 (Figure HI1).

Net imports in May 1998 are estimated to be 240 billion cubic feet, or 7.7 billion cubic feet per day (Table 2). The monthly estimates of net imports in 1998 have exceeded those of 1997 in every month except February, when the 1998 level was only 3 billion cubic feet (1 percent) below that of February 1997. Cumulatively for January through May 1998, net imports are 4 percent higher than for the same period in 1997.

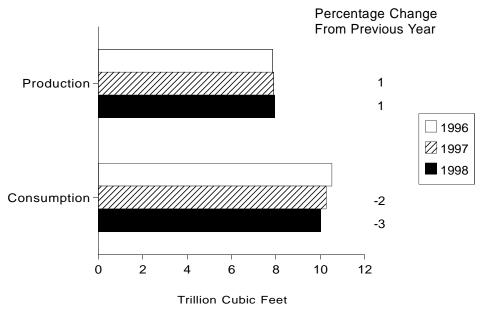
Net injections into storage (negative net withdrawals in Table 10) have been strong during the first 2 months of the 1998 refill season compared with recent years. Net injections during April 1998 are estimated to be 272 billion cubic feet. This is nearly five times the net injections during April 1997 and more than double those of April 1996. Net injections during May 1998 are estimated to be 350 billion cubic feet, or 9 percent higher than in May 1997. The 1996 refill season started with the lowest amount of working gas ever recorded—758 billion cubic feet as of March 31 (records of monthly storage levels begin in 1976), yet the combined net injections for April and May 1998 exceed those of 1996 by 40 percent. Working gas at the end of March 1998 is estimated to be 1,184 billion cubic feet (Figure HI2). Net injections have brought working gas to an estimated 1,806 billion cubic feet at the end of May 1998, 33 percent higher than at this time last year. (Also see the box on page 6 for a review of events in the natural gas industry during the winter of 1997-98).

End-Use Consumption

End-use consumption of natural gas by all sectors in May 1998 is estimated to be 1,409 billion cubic feet, 2 percent lower than in May 1997 (Table 3). Cumulatively for January through May 1998, end-use consumption is estimated to be 244 billion cubic feet (3 percent) lower than for the same period in 1997. The cumulative decline is led

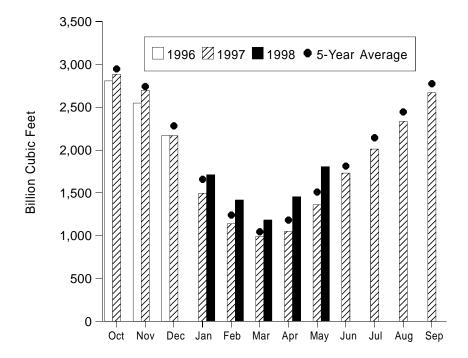
1

Figure HI1. Natural Gas Production and Consumption, January-May, 1996-1998



Source: Table 2.

Figure HI2. Working Gas in Underground Storage in the United States, 1996-1998



Note: The 5-year average is calculated using the latest available monthly data. For example, the December average is calculated from December storage levels for 1993 to 1997 while the January average is calculated from January levels for 1994 to 1998. Data are reported as of the end of the month, thus October data represent the beginning of the heating season.

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and Short-Term Integrated Forecasting System.

2

by an estimated reduction of 178 billion cubic feet (6 percent) in the residential sector, while the industrial sector has consumed 57 billion cubic feet (2 percent) less and the commercial sector 48 billion cubic feet (3 percent) less than during the same period in 1997 (Figure HI3).

Estimates of natural gas consumption in May 1998 in the residential and commercial sectors are 252 and 194 billion cubic feet, respectively. These levels are 12 and 8 percent lower, respectively, than in May 1997. Industrial natural gas consumption in May 1998 is estimated to be 699 billion cubic feet, 2 percent lower than in May 1997.

Estimates of natural gas consumption by electric utilities are now available through February 1998. Electric utility consumption is typically at its lowest during the winter months when the demand for natural gas for space heating in the residential and commercial sectors is at its highest. Electric utilities consumed an estimated 134 billion cubic feet of natural gas in February 1998, 6 percent lower than in February 1997. However, consumption in January was estimated to be 23 percent higher than in January 1997, so cumulatively through February, electric utilities are estimated to have consumed 8 percent more natural gas in 1998 than in 1997.

Prices

The average natural gas wellhead price in February 1998 is estimated to be \$1.64 per thousand cubic feet, 33 percent lower than in February 1997 (Table 4). This difference is largely the result of different patterns in monthly prices during the 1996-97 heating season compared with 1997-98. The average wellhead price increased sharply in the fall of 1996, reaching a peak of \$3.42 per thousand cubic feet in January 1997. In contrast, the wellhead price

rose only slightly from October to November 1997, then declined 22 percent to \$2.17 per thousand cubic feet in December 1997. Price estimates for both January and February 1998 are below that of December 1997 and well below the levels of a year earlier.

End-use price estimates for February 1998 are also lower than a year ago in the residential, commercial, and industrial sectors, as is the average price paid by electric utilities in January 1998. Average residential and commercial natural gas prices¹ are estimated to be \$6.40 and \$5.56 per thousand cubic feet, respectively, in February 1998. These levels are relatively unchanged from the estimates for January 1998, but are 6 and 9 percent lower, respectively, than in February 1997. The average price of natural gas to industrial users is estimated to be \$3.60 per thousand cubic feet in February 1998, just below the estimate in January 1998 but 14 percent lower than in February 1997. (Also see Figure HI4.)

The average price of natural gas paid by electric utilities is estimated to be \$2.64 per thousand cubic feet in January 1998. This is 35 percent lower than in January 1997, yet prices in early 1997 were extraordinarily high. The January 1998 estimate is only 8 percent lower than the price in January 1996.

Daily settlement prices on the nearby month futures contract at the Henry Hub generally have been declining since early April 1998. During 1997, prices in early April were at a lower level than in 1998, but rose steadily through the month and remained above \$2.20 per million Btu during May. Thus, prices on the June 1998 contract during its last month of trading are below the levels of last year (Figure HI5). The June 1998 contract settled at \$2.094 per million Btu on Friday, May 22, 1998, with 3 days of trading remaining. The final settlement price on the June 1997 contract was \$2.346 per million Btu.

¹End-use prices in the residential, commercial, and industrial sectors are for onsystem gas sales only. While monthly onsystem sales are nearly 100 percent of residential deliveries, in 1997 they were from 57 to 78 percent of commercial deliveries and only 14 to 19 percent of industrial deliveries (Table 4).

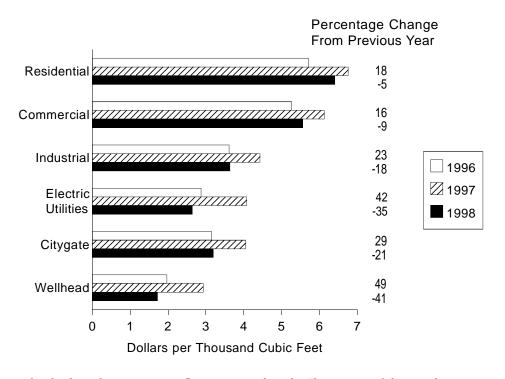
Percentage Change From Previous Year Residential--7 -6 -1 Commercial --3 1996 **2** 1997 0 Industrial-1998 -2 Electric -7 Utilities 8 2 0 1 3 4

Figure HI3. Natural Gas Delivered to Consumers, January-May, 1996-1998

Note: The reporting of electric utility deliveries is 3 months behind the reporting of other deliveries. Source: Table 3.

Trillion Cubic Feet

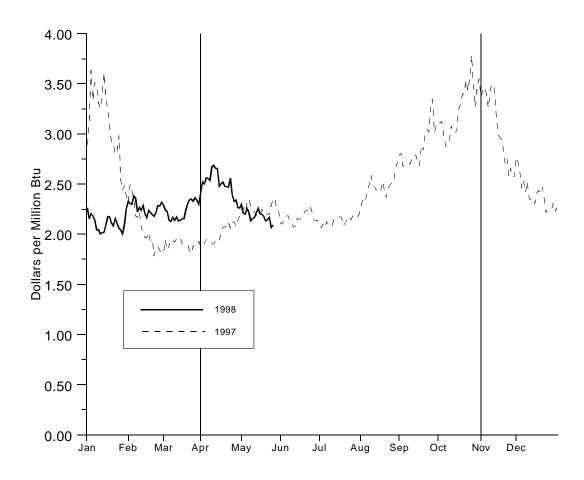
Figure HI4. Average Delivered and Wellhead Natural Gas Prices, January-February 1996-1998



Note: Commercial and industrial average prices reflect on system sales only. The reporting of electric utility prices is 1 month behind the reporting of other prices..

Source: Table 4.

Figure HI5. Daily Futures Settlement Prices at the Henry Hub



Note: The futures price is for the nearby month contract, that is, for the next contract to terminate trading. Contracts are traded on the New York Mercantile Exchange. April 1 is the beginning of the natural gas storage refill season. November 1 is the beginning of the heating season.

Source: Commodity Futures Trading Commission, Division of Economic Analysis.

Recap of the 1997-98 Heating Season

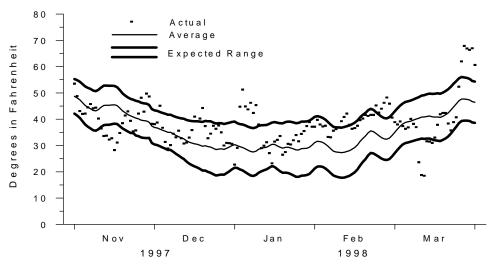
The past winter was highlighted by sharply increasing prices at the beginning of the heating season brought about by concerns regarding natural gas supplies. Unseasonably cool temperatures in early November were followed by generally moderate weather that resulted in temperatures that were 9 percent warmer than normal over the 5-month period (November through March). The consistently mild weather reduced consumption, lessened supply concerns, and brought about steadily decreasing prices.

The early price increases were brought about by several factors, including: coal delivery problems to electric utilities in the Southwest (natural gas was the primary alternative fuel), concern about the lack of growth in available gas supply, and relatively low storage levels following a slow refill rate in July. This led to sharp price increases even before the start of the heating season on November 1. The wellhead price rose more than 20 percent between September and October (\$2.22 vs. \$2.70 per thousand cubic feet) and attained its highest level of the heating season in November (\$2.77). Consumption in the residential sector decreased almost 160 billion cubic feet, or 4 percent, compared with the previous heating season. Overall consumption decreased by less than 2 percent as the strong economy sustained demand for natural gas from the industrial and electric utility sectors. Stocks of working gas in storage were over 1,700 billion cubic feet at the end of January—215 billion cubic feet more than last year at the same time—and the average wellhead price declined in February to \$1.64 per thousand cubic feet.

Weather was 9 percent warmer than normal

The past winter was dominated by one of the largest "El Nino" weather patterns of this century. According to National Weather Service (NWS) data, November was the only month that recorded colder-than-normal weather (11 percent) during the past heating season, as temperatures gradually moderated in the succeeding months. December was 4 percent warmer than normal, while January and February temperatures approached record highs on some days resulting in a 2-month period that was 20 percent warmer than normal. Average temperatures in the four major gas-consuming metropolitan areas (Chicago, Kansas City, New York City, and Pittsburgh) monitored in EIA's *Natural Gas Weekly Market Update* were average or below average on fewer than 10 days during the 2-month period (see following graph). Interestingly, some of the coldest temperatures of the season occurred in early March as the Southeast and the West South Central regions of the country were 9 to 16 percent colder than normal for the month. Nationally, the NWS reported that the country was about 1 percent warmer than normal for March.

Average Temperature for Four Gas-Consuming Metro Areas (Chicago, Kansas City, New York, and Pittsburgh)



Note: The bounds are computed by adding and subtracting from the average temperatures for the last 10 years an amount equal to twice an estimate of the standard deviation for temperatures on a day.

Recap of the 1997-98 Heating Season (Continued)

Natural gas wellhead prices peaked early in the season

Natural gas wellhead prices during this past winter displayed a somewhat unique pattern, reaching their highest levels in the October/November time frame at \$2.70 and \$2.77 per thousand cubic feet (Mcf), respectively (Table 4). The expected pattern is for the season's highest prices to occur in December and January, as during the previous winter (1996-97) when wellhead prices averaged \$3.26 and \$3.42 per Mcf, respectively. Instead, this past year, prices began to increase sharply in September 1997, averaging 2.22 per Mcf for the month compared with \$1.85 in September 1996. The market's concerns surrounding these issues resulted in the NYMEX futures contract price for November delivery at the Henry Hub closing at \$3.346 per million Btu (MMBtu) (Figure HI5)—almost \$0.90 higher than the November 1996 price. At the same time, the price on the Henry Hub spot market was over \$3.65 per MMBtu for several days in early November. However, following moderating temperatures in the last half of November and continuing weather forecasts calling for a warmer-than-normal winter, prices began to trend down. The wellhead price in December declined to \$2.17 per Mcf, while the futures contract closed at \$3.262 per MMBtu. With the arrival of the unseasonably warm January weather, the drop in prices accelerated. The January wellhead price was \$1.79 per Mcf and the February futures contract closed at \$2.00 per MMBtu. Spot prices at the Henry Hub traded near \$2.00 most days in January and February. The cold weather in early March had relatively little impact on prices as it arrived so late in the heating season and the level of working gas in storage at the end of February was more than 1,400 billion cubic feet, almost 300 billion cubic feet more than last year at the same time.

The price of natural gas to residential end users was 4.5 percent higher during the first 2 months of the past heating season compared with the same period in the previous year (\$6.71 vs. \$6.42 per Mcf). In response to price declines in the wellhead, spot, and NYMEX futures contract markets, prices to the residential consumer moved down in January and February to an average of \$6.41 per Mcf.

Storage level ended the season 20 percent above that in 1997

Gas storage inventories at the start of the past heating season were 2,886 billion cubic feet, marking the third consecutive year that the working gas level was less than 3.0 trillion cubic feet at the conclusion of the refill season (April to October). Again, this relatively low working gas level raised concerns about whether or not storage stocks would be adequate to meet demand in the approaching winter. But the warmer and wetter winter season reduced the demand for storage gas and stocks remained more than adequate throughout the winter. EIA storage data through March 1998 indicate that net withdrawals during the 1997-98 heating season were 1,730 billion cubic feet (Bcf)—105 Bcf less than during the previous heating season and almost 600 Bcf less than 2 years earlier. At the end of March 1998, 1,184 Bcf of gas remained in storage. This is 193 Bcf more than last year and 426 Bcf more than at the end of March 1996.

Even with almost 1,200 Bcf in storage at the end of March, the refill season began aggressively in April. EIA estimates that almost 622 Bcf was added to working gas storage levels in April and May. This robust rate of refill is 243 Bcf or 64 percent more than in April and May of last year. In order to meet a typical beginning-of-heating-season working gas level of between 2.8 and 3.0 trillion cubic feet, the refill rate between June and October will need to average almost 220 Bcf per month. Last year's average monthly refill rate during that 5-month period was more than 300 Bcf per month.

Table 1. Summary of Natural Gas Production in the United States, 1992-1998 (Billion Cubic Feet)

Year and Month	Gross Withdrawals	Repressuring	Nonhydrocarbon Gases Removed ^a	Vented and Flared	Marketed Production (Wet)	Extraction Loss ^b	Dry Gas Production ^c
1992 Total	22,132	2,973	280	168	18,712	872	17,840
1993 Total		3,103	414	227	18,982	886	18,095
1994 Total		3,231	412	228	19,710	889	18,821
1995 Total		3,565	388	284	19,506	908	18,599
1996							
January	2.052	310	44	26	1.673	81	1,591
February	1,941	294	41	24	1,580	77	1,504
March	2,054	313	45	23	1,674	81	1,592
April	,	289	42	22	1,650	80	1,570
May		281	42	23	1,679	81	1,598
June	1,962	276	36	16	1,634	79	1,555
July	2,008	271	42	24	1,672	81	1,591
August		281	42 45	24	1,672	81	1,590
September		283	44	22	1,609	78	1,531
•	2,011	306	44	23	1,638	76 79	1,558
October November		299	44 47	23 23		79 78	1,537
	,				1,615		,
December	2,032	307	46	23	1,656	80	1,576
Total	24,052	3,510	518	272	19,751	958	18,793
1997							
January	^E 2,094	[€] 327	[€] 41	^E 21	^E 1,704	^E 79	[€] 1,625
February	E1,910	E301	€38	^E 19	[€] 1,553	E72	E1,480
March	E2,098	E322	E 43	E23	E1,711	E80	E1,631
April	E1,985	E296	[€] 42	^E 21	E1,626	€ 76	E1,550
May	E2,070	E313	[€] 42	E21	E1,693	^E 79	E1,614
June	E1,967	[€] 294	E 40	E20	E1.612	[€] 75	E1.537
July	_ `	E295	E42	E22	E1.674	E78	E1,596
August	_ ′	E283	E42	E22	[€] 1.663	E77	E1.585
September	E1,970	E294	E42	E21	E1,613	^E 75	E1,538
October	E2.033	E318	E44	E22	[€] 1,650	E77	E1,573
November	RE2,012	E308	€43	E22	RE1,640	RE 76	RE1,563
December	RE2,110	[€] 334	E44	RE 24	RE1,708	RE80	RE1,629
Total	RE24,292	^E 3,685	€503	^{RE} 258	^E 19,846	^E 925	E18,921
1998							
January	RE2.095	RE331	RE43	E23	RE1,698	RE79	RE1,619
February	,	RE305	RE40	E21	E1.562	E73	E1.489
March	E2,132	E337	E44	E23	E1.728	73 ^E 81	E1.647
April(STIFS)		NA	NA 44	NA ZS	E1,646	E79	E1.566
May(STIFS)		NA	NA	NA	E1,714	E83	E1,631
1998 YTD	NA	NA	NA	NA	E8,348	^E 395	E7,953
		E4 550	Enno	E4.0.5	,		,
1997 YTD	-,	[€] 1,559	[€] 206	E105	[€] 8,286	[€] 386	€7,900
1996 YTD	10,075	1,487	214	118	8,255	400	7,855

a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.
 b Extraction loss is only collected on an annual basis. Annually it is between 4 and 5 percent of marketed production. Monthly extraction loss is estimated from monthly marketed production by assuming that the preceding annual percentage remains constant for the next twelve months.
 c Equal to marketed production (wet) minus extraction loss.
 E = Estimated Data.

RE = Revised Estimated Data.
NA = Not Available.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated and contain estimates for selected States (see Table

^{7).} Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.

Sources: 1992-1996: Energy Information Administration (EIA), *Natural Gas Annual 1996*. January 1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," STIFS, and EIA estimates. See Appendix A, Explanatory Notes 1, 3, and 6, for discussion of computation and estimation procedures and revision policies.

Table 2. Supply and Disposition of Dry Natural Gas in the United States, 1992-1998 (Billion Cubic Feet)

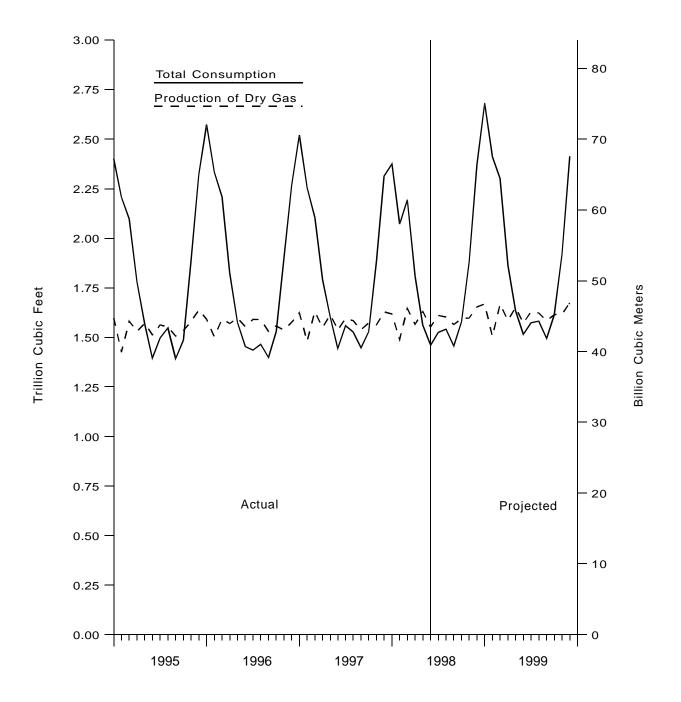
Year and Month	Dry Gas Production	Supplemental Gaseous Fuels ^a	Net Imports	Net Storage Withdrawals ^b	Balancing Item ^c	Consumption
1992 Total	17,840	118	1,921	173	-508	19,544
1993 Total	18,095	119	2,210	-36	-110	20,279
1994 Total	18,821	111	2,462	-286	-400	20,708
1995 Total	18,599	110	2,687	415	-230	21,581
1996						
January	1,591	12	249	723	-2	2,574
February	1.504	11	221	462	138	2,335
March	1,592	11	226	333	46	2,209
April	1,570	9	227	-119	139	1,826
May	1,598	6	244	-339	67	1,576
June	1,555	8	214	-388	65	1,454
	,	-				
July	1,591	8	222	-382	-3	1,436
August	1,590	8	221	-358	. 4	1,465
September	1,531	8	227	-379	12	1,399
October	1,558	9	236	-210	-62	1,531
November	1,537	10	238	272	-161	1,896
December	1,576	10	259	387	35	2,266
Total	18,793	109	2,784	2	279	21,967
1997						
January	E1,625	^E 13	264	684	^R -64	R2,521
February	E1,480	[€] 11	231	358	R175	R2,255
March	E1,631	€10	243	155	^R 64	R2,104
April	E1.550	E 9	221	-58	R71	R1.792
May	E1,614	E9	229	-321	^R 69	R1,601
June	E1,537	E7	226	-364	R38	R1,444
July	E1.596	E8	222	-281	R15	R1.560
August	E1,585	E9	231	-322	^R 25	R1,528
September	E1,538	E7	232	-336	R7	R1.448
October	E1,573	Eg	234	-211	R-76	R1,529
	RE1,563	E ₁₁			-76 R-134	
November			254	189		R1,884
December	^{RE} 1,629	[€] 12	246	533	^R -106	^R 2,314
Total	E18,921	^E 116	2,833	27	^R 84	R21,981
998						
January	^{RE} 1,619	E12	RE270	466	RE9	R2,376
February	E1,489	E10	E228	299	RE46	2,072
March	E1,647	E11	E257	241	E 39	^E 2,195
April(STIFS)	E1,566	E10	E245	RE-272	RE259	E1,808
May(STIFS)	E1,631	E 9	E240	^E -350	E33	E1,563
1998 YTD	€7,953	€52	E1,239	 €385	€386	E10,013
1997 YTD	E7,900	€52	1,189	818	315	10,274
1996 YTD	7,855	49	1,167	1,060	388	10,519

a Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility which provides data Supplemental gaseous fuels data are only collected on an annual basis except for the Dakota Gasification Inc. coal gasification facility which provides data each month. The ratio of annual supplemental fuels (excluding Dakota Gasification Inc.) to the sum of dry gas production, net imports, and net withdrawals from storage is calculated. This ratio, which varies between .0025 and .0037, is applied to the monthly sum of these three elements. The Dakota Gasification Inc. monthly value is added to the result to produce the monthly supplemental fuels estimate.
 Monthly and annual data for 1991 through 1996 include underground storage and liquefied natural gas storage. Data for January 1997 forward include underground storage only. See Appendix A, Explanatory Note 7 for discussion of computation procedures.
 Represents quantities lost and imbalances in data due to differences among data sources. See Appendix A, Explanatory Note 9, for full discussion.
 Consists of pipeline fuel use, lease and plant fuel use, vehicle fuel, and deliveries to consuming sectors as shown in Table 3.
 Revised Data.
 Estimated Data.

Natural Gas Report, (1995 data only), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-191, "Monthly Underground Gas Storage Report," Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," ElA computations and Natural Gas Annual 1996. January 1997 through current month: EIA, Form EIA-895, "Monthly Quantity of Natural Gas Report," Form EIA-857, Form EIA-191, EIA computations, and estimates, Short-Term Integrated Forecasting System (STIFS) computations, and Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. See Appendix A for dicussion of computation and estimation procedures and revision policies

R = Revised Data.
E = Estimated Data.
RE = Revised Estimated Data.
Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding.
Sources: 1992-1996: Energy Information Administration (EIA), Natural Gas Annual 1996, 1994-1995: EIA: Form EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Benerii (1995). Ergen EIA-627, "Annual Quantity and Value of Natural Cas Beneri

Figure 1. Production and Consumption of Natural Gas in the United States, 1995-1999



Sources: 1995 through the current month: Table 2. Projected data: Energy Information Administration, Short-Term Energy Outlook (October 1997).

Table 3. Natural Gas Consumption in the United States, 1992-1998

(Billion Cubic Feet)

Year	Lease and			Delive	red to Consun	ners		
and Month	Plant Fuel ^a	Pipeline Fuel ^b	Residential	Commercial	Industrial	Electric Utilities	Total	Total Consumption
1992 Total	1.171	588	4,690	°2.803	7,527	2,766	17,786	19.544
1993 Total	1,172	624	4.956	°2.863	7,981	2,682	18.483	20,279
1994 Total	1,124	685	4,848	c _{2,897}	8,167	2,987	18,899	20,708
1995 Total	1,220	700	4,850	c3,034	8,580	3,197	19,660	21,581
1996								
January	106	85	934	480	800	168	2,382	2,574
February	101	77	831	443	747	137	2,158	2,335
March	106	72	705	387	781	156	2,030	2,209
April	104	59	474	284	736	170	1,663	1.826
May	106	50	271	183	701	264	1,420	1,576
,	100	46	162	133	710	299	1,305	1,454
June Julv	102	46 46	162	126	677	299 358	1,305	1,454
							,	,
August	105	47	118	123	704	367	1,312	1,465
September	102	45	138	124	706	285	1,253	1,399
October	104	49	243	171	737	226	1,378	1,531
November	103	62	503	295	764	170	1,732	1,896
December	105	74	738	409	807	132	2,086	2,266
Total	1,250	711	5,241	°3,161	8,870	2,732	20,006	21,967
1997								
January	[€] 107	82	R907	480	^R 806	139	R2,333	R2,521
February	E 97	73	^R 767	^R 428	747	143	^R 2,085	^R 2,255
March	E107	68	^R 606	R367	^R 766	190	R1.929	R2.104
April	E102	58	R435	R273	732	193	R1,633	R1,792
May	E106	52	R286	R212	714	231	R1.443	R1.601
June	E101	R47	R161	R159	681	296	R1.296	R1,444
July	^E 105	^R 51	131	R151	^R 695	428	R1,404	R1,560
	[€] 104	49	119	R147	716	391	R1.374	R1,528
August	E101			R147				
September		47	132		688	333	R1,300	R1,448
October	E103	50	236	188	^R 706	246	R1,376	R1,529
November	E103	61	R499	R317	724	180	R1,720	R1,884
December	E107	75	731	^R 413	790	199	R2,132	^R 2,314
Total	E1,242	^R 712	^R 5,009	R3,282	^R 8,766	2,969	R20,027	R21,981
1998								
January	^{RE} 106	77	799	^R 446	R777	171	R2,192	R2,376
February	E98	67	675	401	698	134	1,908	2,072
March(STIFS)	^E 106	E 68	^E 660	^E 386	[€] 798	NA	E2,021	[€] 2,195
April(STIFS)	E101	^E 57	[€] 436	[€] 285	E736	NA	E1,650	E1,808
May(STIFS)	[€] 104	E 50	^E 252	[€] 194	[€] 699	NA	E1,409	E1,563
1998 YTDd	[€] 515	^E 319	E2,822	E1,713	E3,708	305	E9,179	E10,013
			,				,	,
1997 YTD	 519	333	3,000	1,761	3,765	283	9,423	10,274
1996 YTD	523	343	3,215	1,777	3,765	305	9,652	10,519

^a Plant fuel data are only collected on an annual basis and monthly lease fuel data are only collected annually. Lease and plant fuel estimates have been between 6 and 7 percent of marketed production annually. Monthly lease and plant fuel use is estimated from monthly marketed production by assuming that

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise indicated. Estimates for the most recent three months are derived from the Short-Term Integrated Forecasting System (STIFS). Geographic coverage is the 50 States and the District of Columbia. Totals may not equal sum of components because of independent rounding. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Sources: 1992-1996: Energy Information Administration (EIA): Form EIA-627, "Annual Quantity and Value of Natural Gas Report," (thru 1994), Form EIA-895 "Monthly Quantity of Natural Gas Report," (1995 forward), Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form EIA-759, "Monthly Power Plant Report," EIA computations, and Natural Gas Annual 1996. January 1997 through the current month: EIA: Form 895, "Monthly Power Plant Report," EIA 257, Each Constitute of Natural Cast Power (1995 forward), and CTIFS constitute of Natural Cast Power (1995 forward), and CTIFS constitute of Natural Cast Power (1995 forward), and CTIFS constitute of Natural Cast Power (1995 forward), and CTIFS constitute of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward), but the forward of Natural Cast Power (1995 forward),

Quantity of Natural Gas Report," Form EIA-857, Form EIA-759, and STIFS computations. See Appendix A, Explanatory Note 5, for computation procedures and revision policy.

between 6 and 7 percent of inflanted production annually assuring that the preceding annual percentage remains constant for the next twelve months.

b Pipeline fuel use is only collected on an annual basis. Annually it is between 3 and 4 percent of total consumption. Monthly pipeline fuel data are estimated from monthly total consumption (excluding pipeline fuel) by assuming that the preceding annual percentage remains constant for the next twelve months.

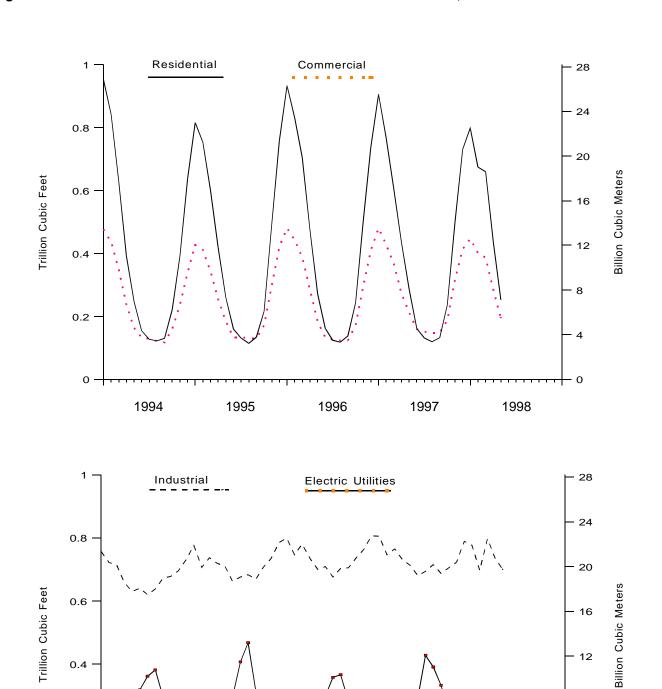
c Vehicle fuel deliveries, in billion cubic feet, were 0.4 in 1991, 0.5 in 1992, 1.0 in 1993, 1.7 in 1994, 2.7 in 1995 and 2.9 in 1996.

d Year-to-date volume represents months for which volume information is available in the current year.

R = Revised Data.
E = Estimated Data.

RE = Revised Estimated Data.NA = Not Available.

Figure 2. Natural Gas Deliveries to Consumers in the United States, 1994-1998



Sources: Natural Gas Annual, Form EIA-857, and Form EIA-759.

0.2

Table 4. Selected National Average Natural Gas Prices, 1992-1998

(Dollars per Thousand Cubic Feet)

			Delivered to Consumers								
Year and	Wellhead Price ^a	City Gate	Residential	Com	mercial	Ind	ustrial	Electric			
Month		Price	Price	Price	% of Total ^b	Price	% of Total ^b	Utilities Price			
992 Annual Average	1.74	3.01	5.89	4.88	83.2	2.84	30.3	2.36			
1993 Annual Average	2.04	3.21	6.16	5.22	83.9	3.07	29.7	2.61			
1994 Annual Average	1.85	3.07	6.41	5.44	79.3	3.05	25.5	2.28			
995 Annual Average	1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02			
996											
January	2.05	3.14	5.64	5.29	83.2	3.61	22.0	2.87			
February	1.89	3.16	5.82	5.25	83.3	3.61	22.7	3.07			
March	1.95	3.17	5.93	5.36	81.8	3.52	22.3	2.73			
April	2.08	3.22	6.27	5.34	79.5	3.42	20.5	2.68			
May	2.01	3.18	6.84	5.40	74.6	3.14	18.7	2.52			
June	2.08	3.41	7.83	5.43	70.0	3.13	16.7	2.59			
July	2.25	3.49	8.64	5.46	67.8	3.17	18.6	2.69			
August	2.10	3.46	8.73	5.56	66.3	3.05	17.4	2.57			
September	1.85	3.05	7.99	5.46	67.1	2.77	16.9	2.24			
October	1.94	2.94	7.05	5.33	69.1	2.89	17.2	2.37			
November	2.50	3.46	6.37	5.40	75.7	3.57	18.5	3.04			
December	3.26	4.18	6.47	5.78	78.1	4.20	20.0	3.98			
Annual Average	2.17	3.34	6.34	5.40	77.6	3.42	19.4	2.69			
1997											
January	E3.42	4.27	^R 6.74	^R 6.15	^R 77.5	^R 4.62	^R 19.4	4.08			
February	E2.44	3.78	^R 6.80	^R 6.10	^R 76.9	4.20	17.7	3.18			
March	E1.61	3.06	^R 6.53	^R 5.72	^R 72.9	3.36	R17.4	2.39			
April	E1.64	2.94	^R 6.57	^R 5.46	^R 70.9	R2.99	16.9	2.34			
May	E1.87	3.16	^R 6.83	^R 5.36	63.8	2.92	16.6	2.51			
June	E2.01	3.44	^R 8.21	^R 5.56	60.3	R3.07	^R 16.0	2.59			
July	E1.91	3.61	R8.55	^R 5.28	^R 58.7	R2.86	R14.8	2.49			
August	E1.95	3.45	^R 8.81	^R 5.32	56.6	2.92	13.8	2.58			
September	E2.22	3.60	^R 8.65	^R 5.54	^R 58.1	3.21	13.8	2.99			
October	E2.70	3.93	^R 7.60	^R 5.94	^R 60.6	3.66	15.2	3.30			
November	E2.77	3.86	^R 6.85	^R 5.84	^R 67.5	4.07	16.1	3.48			
December	E2.17	3.48	^R 6.56	^R 5.69	^R 72.1	3.78	15.1	2.85			
Annual Average	E2.23	3.61	^R 6.93	^R 5.77	^R 69.4	R3.53	R16.1	2.81			
998											
January	[€] 1.79	3.28	6.42	5.56	R72.4	R3.66	15.6	2.64			
February	^E 1.64	3.09	6.40	5.56	68.7	3.60	16.0	NA			
998 YTD:	E1.72	3.19	6.41	5.56	70.7	3.63	15.8	2.64			
1997 YTD	E2.93	4.05	6.76	6.13	77.3	4.43	18.6	4.08			
1996 YTD	1.97	3.15	5.72	5.27	83.2	3.61	22.3	2.87			

^a See Appendix A, Explanatory Note 8, of the Natural Gas Monthly (NGM) for discussion of wellhead prices.

January 1997 through current month: See Appendix A, Explanatory Note 8 for estimation procedures and revision policy.

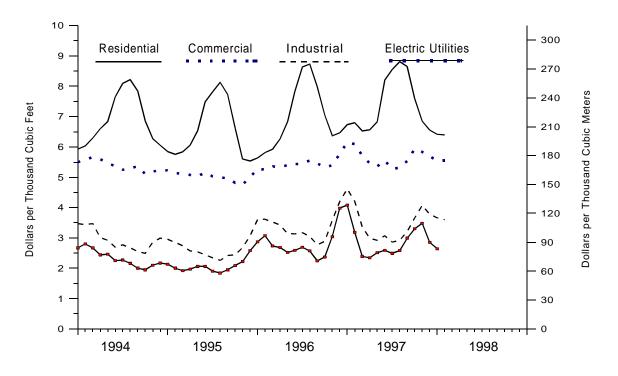
See Appendix A, Explanatory Note 8, of the *Natural Gas Monthly (Notin)* of uscussion of weinlead prices.
 Percentage of total deliveries represented by onsystem sales, see Figure 6. See Table 24 for breakdown by State.
 Year-to-date price represents months for which price information is available in the current year.
 Revised Data.
 Estimated Data.

NA = Not Available.

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

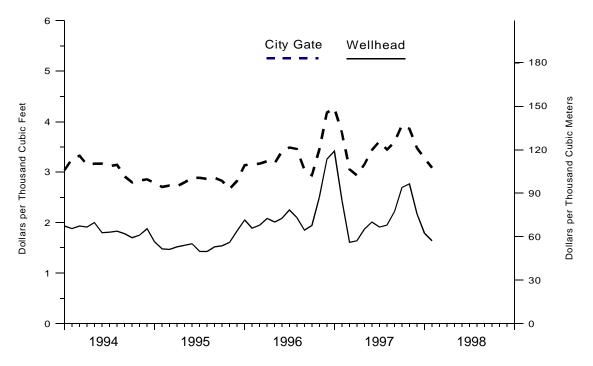
Sources: 1990-1996: Energy Information Administration (EIA) *Natural Gas Annual 1996*. 1997 forward: EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers," Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and EIA estimates.

Figure 3. Average Price of Natural Gas Delivered to Consumers in the United States, 1994-1998



Source: Table 4.

Figure 4. Average Price of Natural Gas in the United States, 1994-1998



Source: Table 4.

Table 5. U.S. Natural Gas Imports, by Country, 1992-1998

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

		Pipe	line			LN	G		Tota	ıl
Year and	Cana	da	Mexic	со	Algei	ia	Othe	er		
Month	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
1992 Total	2,094,387	1.84	_	_	43,116	2.54	_	_	2,137,504	1.85
1993 Total	2,266,751	2.02	1.678	1.94	81,685	2.20	_	_	2,350,115	2.03
1994 Total	2,566,049	1.86	7,013	1.99	50,778	2.28	_	_	2,623,839	1.87
1995 Total	2,816,408	1.48	6,722	1.53	17,918	2.30	_	_	2,841,048	1.49
1996										
January	259.656	2.08	1,499	2.03	2.460	2.81	_	_	263.615	2.09
February	230,546	1.94	698	2.14	2,512	2.79	_	_	233,756	1.95
March	237.668	1.94	1.259	2.14	2,512	3.06	_	_	241.526	1.93
	- ,			2.34		2.43	_	_	,	1.87
April	230,928	1.86	1,369		4,559		_	_	236,857	
May	245,522	1.70	4,024	2.14	2,612	2.58	_	_	252,158	1.72
June	225,875	1.70	711	2.35	0		_	_	226,587	1.70
July	232,908	1.82	1,313	2.58	2,642	3.00		_	236,864	1.84
August	235,199	1.80	30	1.70	2,629	2.56	_		237,858	1.80
September	234,206	1.60	770	1.69	0	_	^a 2,524	3.34	237,500	1.62
October	241,294	1.68	1,110	2.37	5,116	2.96	_	_	247,520	1.71
November	245,795	2.25	982	2.85	5,031	2.59	_	_	251,807	2.26
December	263,681	3.00	96	3.30	5,164	2.51	^a 2,425	3.57	271,366	3.00
Total	2,883,277	1.96	13,862	2.25	35,325	2.70	4,949	3.45	2,937,413	1.97
1997										
January	264,919	2.93	1,375	3.08	7,560	2.78	^a 2,417	3.68	276,271	2.93
February	233,569	2.49	2,248	2.44	7,667	3.00	_	_	243,484	2.51
March	254,416	2.10	2,737	1.84	2,530	2.98	_	_	259,683	2.11
April	232,114	1.72	189	1.92	2,557	2.23	_	_	234,860	1.72
May	232,065	1.82	2,382	2.03	2,552	2.20	^b 2,455	2.59	239,455	1.83
June	228,505	1.82	1.694	2.21	5.059	2.48	_ ′	_	235,258	1.83
July	225,528	1.86	1,088	1.98	5,026	2.48	_	_	231,642	1.87
August	241,036	1.86	6	2.35	7,535	2.43	_	_	248,578	1.88
September	237,347	1.93	29	2.47	5,030	2.41	^b 2,337	2.88	244,743	1.95
October	240,450	2.32	965	2.92	5.050	2.70		2.00	246,466	2.33
November	253.196	2.56	1.781	2.82	7.542	2.89	^b 4.893	3.07	267.412	2.58
December	253,134	2.32	1,810	2.12	7,542	2.88	-	-	262,511	2.33
Total	2,896,280	2.16	16,304	2.31	65,675	2.67	12,103	3.06	2,990,363	2.17
1998			,		,		,			
	R070 400	NA	E4 540	NA	10.105	NA	ba a 45	NA	REOOF OF	NA
January	R273,189	NA NA	E1,519	NA NA	10,105	NA NA	^b 1,145	_	RE285,958	NA NA
February	E230,009	NA NA	E1,519	NA NA	7,607	NA NA		_	E239,135	NA NA
March	E266,077	NA.	[€] 1,519	NA.	5,166	IVA.	_	_	E272,762	NA.
1998 YTD	E769,275	NA	^E 4,557	NA	22,879	NA	1,145	NA	E797,856	NA
1997 YTD	752,904	2.51	6,360	2.32	17,757	2.90	2,417	3.68	779,438	2.53
1996 YTD	727,870	1.98	3,456	2.17	7,572	2.89	0	_	738,897	1.99

a Received from the United Arab Emirates.
 b Received from Australia.
 R = Revised Data.

R = Revised Data.
E = Estimated Data.
RE = Revised Estimated Data.
NA = Not Available.
- Not Applicable.
- Not Applicable. Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 6. U.S. Natural Gas Exports, by Country, 1992-1998

(Volumes in Million Cubic Feet, Prices in Dollars per Thousand Cubic Feet)

		Pipe	eline		LI	NG	Total	
Year and	Car	nada	Me	xico	Ja	pan		
Month	Volume	Average Price	Volume	Average Price	Volume	Average Price	Volume	Average Price
992 Total	67,777	1.83	95,973	1.90	52,532	3.43	216,282	2.25
1993 Total	44,518	2.14	39,676	2.02	55,989	3.34	140,183	2.59
	,	2.14	,		,	3.18	,	2.59
1994 Total	52,556		46,500	1.68	62,682		161,738	
1995 Total	27,554	1.96	61,283	1.50	65,283	3.41	154,119	2.39
996								
January	7,044	3.13	1,607	1.98	5,534	3.38	14,186	3.10
February	5,207	2.71	2,000	1.82	5,621	3.35	12,828	2.85
March	6,616	2.79	2,860	1.81	5,642	3.55	15,118	2.88
April	2.430	2.21	1.924	1.69	5.654	3.57	10.008	2.88
May	2,809	2.15	1,899	1.84	3,750	3.61	8,458	2.73
June	3,001	2.25	3,486	2.16	5,651	3.65	12,138	2.87
July	3,777	2.45	3,062	2.24	7,546	3.66	14,385	3.04
	2,197	2.30	9,176	2.24	5,663	3.67	17,036	2.65
August								
September	2,514	1.94	2,389	1.73	5,663	3.73	10,566	2.85
October	4,311	1.97	1,990	1.85	5,589	3.84	11,889	2.83
November	6,776	2.77	1,533	2.56	5,670	4.01	13,979	3.25
December	5,222	3.67	1,914	3.72	5,665	3.73	12,801	3.70
Total	51,905	2.67	33,840	2.11	67,648	3.65	153,393	2.97
1997								
January	4,193	4.08	2,220	4.07	5,604	4.25	12,017	4.16
February	5,169	3.02	1,666	2.32	5,596	4.29	12,431	3.50
March	9,117	2.06	1,493	1.55	5,675	4.22	16,285	2.76
April	5,167	1.78	3,046	1.83	5,660	4.06	13,873	2.72
•	,		,		,		,	
May	4,108	2.09	2,177	1.96	3,812	3.98	10,097	2.77
June	3,162	2.28	2,579	2.14	3,786	4.22	9,527	3.01
July	3,257	2.14	3,122	2.17	3,756	3.66	10,135	2.71
August	3,820	2.16	6,282	2.37	7,532	3.62	17,634	2.85
September	3,128	2.37	6,070	2.60	3,767	3.72	12,965	2.87
October	2,450	2.85	4,182	2.87	5,675	3.58	12,307	3.19
November	5,597	3.10	1,782	3.15	5,691	3.66	13,070	3.35
December	7,318	2.58	3,650	2.29	5,631	3.58	16,599	2.86
Total	56,486	2.52	38,269	2.46	62,187	3.90	156,942	3.05
998								
January	[€] 5,122	NA	E3,205	NA	7,446	NA	E15,773	NA
February	E4.726	NA	E2.912	NA	3.726	NA	E11.364	NA
March	^E 5,122	NA	E3,205	NA	7,435	NA	E15,762	NA
1009 VTD	E4 4 070	NA	E0 222	NA	10 607	NA	E42 000	NA
1998 YTD	E14,970		E9,322		18,607		E42,899	
1997 YTD	18,479	2.79	5,379	2.83	16,876	4.25	40,734	3.40
1996 YTD	18,867	2.89	6,467	1.86	16,798	3.43	42,132	2.94

E = Estimated Data.

NA = Not Available.

Sources: 1991-1994: Energy Information Administration, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." January 1995 through the current month (except estimates): Office of Fossil Energy, U.S. Department of Energy, Natural Gas Imports and Exports. Estimated pipeline data (shown with an "E") are taken from data from the National Energy Board of Canada plus EIA estimates. LNG data: Industry reports.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998 (Million Cubic Feet)

Year and Month	Alabama ^b	Alaska	Arizona	California	Colorado	Florida	Kansas
992 Total	355.099	443.597	771	365.632	323,041	6.657	658.007
993 Total	388.024	430.350	597	315.851	400.985	7.085	686.34
994 Total	515,272	555,402	752	309,427	453,207	7,486	712,730
995 Total	519,661	469,550	558	279,555	523,084	6,463	721,430
996							
January	45,653	44,655	41	20,714	48,619	518	62,976
February	42.668	40,433	42	22,910	45.504	493	62.68
March	45,334	43,738	45	24.686	47.843	460	63.02
April	43.868	39,694	36	23.988	45.293	456	60.85
May	45,160	36,348	39	24,091	46,893	483	62,19
June	43,319	37,334	45	23,281	45,212	503	56,31
July	43,257	37,272	30	24,495	45,570	500	57,09
August	43,873	37,239	43	24,547	51,269	540	55.14
September	42,834	38.039	31	23.826	45.437	537	55.56
October	42,200	41,204	34	24,261	50,245	468	57,58
November	45,395	40,706	37	24,493	49,824	517	58,46
December	47,278	44,166	40	25,203	50,363	531	60,89
Total	530,841	480,828	463	286,494	572,071	6,006	712,796
997							
January	32,136	45,409	46	24,427	47,843	525	60,197
February	29,307	40,017	41	23,877	47,967	510	54,234
March	32,291	43,559	42	23,879	52,372	607	60,099
April	32,077	39,267	39	23,223	48,571	552	57,08
May	31,326	35,821	36	23,690	48,444	538	61,66
June	30,137	37,634	28	23,507	44,744	448	57,73
July	31,331	35,680	31	23,981	50,319	512	58,234
August	30,914	36,425	30	23,831	52,235	503	53,374
September	33,496	34,854	29	23,792	50,425	517	49,65
October	34,689	39,929	34	24,490	51,450	450	53,81
November	33,848	41,052	57	27,505	45,507	437	^R 54,152
December	R33,386	44,965	39	24,896	R55,769	489	RE58,413
Total	R384,937	474,612	451	291,098	R595,647	6,087	RE678,65
998							
January	32,739	43,715	43	24,810	53,025	479	E55,907

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998

(Million Cubic Feet) — Continued

Year and Month	Louisiana ^b	Michigan	Mississippi	Montana	New Mexico	North Dakota	Oklahoma
1992 Total	4.914.300	194.815	91.697	53.867	1.268.863	54.883	2.017.356
1993 Total	4,991,138	204,635	80.695	54,528	1,409,429	59,851	2,049,942
1994 Total	5,169,705	222,657	63,448	50,416	1,557,689	57,805	1,934,86
1995 Total	5,108,366	238,203	95,533	50,264	1,625,837	49,468	1,811,73
1996							
January	437.274	21.912	8.089	4,503	135,594	4,276	143.693
February	412.611	18.686	7.386	4.266	126,370	3.880	139.11
March	446.371	11,208	8,385	4.443	138,091	4.164	131.70
April	436,014	32,072	8,225	4,098	132,572	4,122	147,949
May	451.148	18.021	9.026	4.244	138.946	4.273	149.42
June	434.668	23.572	8,983	3,496	131,778	3,990	143,675
July	449.052	27.119	9,335	3.603	125.193	4.047	146.45
August	449,461	23,261	9,193	4,050	126,967	4,096	148,463
September	431,768	20,208	8,641	4,172	122.040	4.185	143,30
October	421,252	20,374	8,996	4.668	123,570	4,246	150,32
November	427,566	16.081	8.487	4,521	124,377	4.216	146.82
December	443,563	13,227	8,518	4,933	128,590	4,178	143,96
Total	5,240,747	245,740	103,263	50,996	1,554,087	49,674	1,734,887
1997							
January	E466,044	35,849	8,089	4,638	125,382	4,035	144,608
February	E425,451	17,314	7,807	4,380	125,445	3,921	134,742
March	E470,994	25,435	8,470	4,608	124,026	4,313	146,588
April	E458,943	13,281	8,120	4,320	123,657	4,176	136,080
May	E469,736	40,848	8,611	4,166	122,869	4.542	141,818
June	E453,645	19,934	8.893	3,792	123,509	4.341	137.04
July	E468,677	41,068	8,636	4,080	123,507	4,420	143,14
August	E469,613	19,081	9,626	4,172	123,966	4,454	146,38
September	449,866	E19,546	9.162	E4,348	124,586	4,276	141,64
October	438,579	20,966	10.084	E4.959	124,710	4.507	148.58
November	443,300	26,661	9,683	[€] 4,994	E125,632	4,434	146,638
December	460,418	30,610	9,955	€5,260	E129,777	4,634	145,859
Total	E5,475,266	E310,591	107,137	E53,718	E1,497,069	52,053	1,713,12
1998							
January	463,097	E34,129	9,639	[€] 5,173	E124,359	4,623	145,522

See footnotes at end of table.

Table 7. Marketed Production of Natural Gas, by State, 1992-1998

(Million Cubic Feet) — Continued

Year and Month	Oregon	Texas ^c	Utah	Wyoming	Other ^a States	U.S. Total
1992 Total	2,580	6,145,862	171,293	842,576	800,913	18,711,808
1993 Total	4,003	6,249,624	225,401	634,957	788,472	18,981,915
1994 Total	3,221	6,353,844	270,858	696.018	774.724	19,709,525
1995 Total	1,923	6,330,048	241,290	673,775	759,728	19,506,474
1996						
January	120	545,658	19,998	58,691	69,638	1,672,623
February	75	512,557	18,027	56,037	66,726	1,580,472
March	105	552,700	21,650	57,270	72,373	1,673,596
April	121	529,015	20,864	54,662	65,643	1,649,552
May	140	547,843	21,035	52,805	67,061	1,679,176
June	132	533,168	20,759	59,346	64,752	1,634,329
July	146	557,986	20,573	55,519	64,500	1,671,743
August	117	550,499	21,137	54,567	66,523	1,670,989
September	132	529,524	21,589	51,949	65,361	1,609,140
October	133	543,264	22,152	53,649	69,163	1,637,792
November	113	517,147	21,606	53,990	70,997	1,615,362
December	102	529,659	21,376	57,551	71,875	1,656,019
Total	1,439	6,449,022	250,767	666,036	814,612	19,750,793
1997						
January	105	560,683	21,782	53,272	^E 69,157	E1,704,228
February	98	509,089	19,115	45,143	^E 64,219	E1,552,675
March	101	560,042	21,912	62,872	[€] 68,518	E1,710,728
April	102	531,761	19,570	60,661	[€] 64,329	E1,625,816
May	102	549,243	22,053	62,147	[€] 64,899	E1,692,549
June	97	527,306	19,815	55,384	^E 64,227	E1,612,216
July	98	533,930	21,711	60,873	[€] 64,033	E1,674,262
August	99	539,321	21,024	[€] 62,134	[€] 65,381	E1,662,565
September	86	520,843	22,007	60,378	^E 63,629	E1,613,144
October	97	535,219	23,006	66,373	^E 67,561	E1,649,501
November	91	521,531	22,840	63,949	^E 67,586	RE1,639,897
December	96	542,516	R22,307	[€] 66,746	^E 72,224	^{RE} 1,708,357
Total	1,173	6,431,484	R257,139	E719,932	E795,764	RE19,845,939
1998						
January	90	542,462	E21,818	66,074	E70,408	E1,698,112

 ^a Includes Arkansas, Illinois, Indiana, Kentucky, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Virginia and West Virginia. The 1997 monthly values for these States are estimated.
 ^b All data for 1991 through 1996 include Federal Offshore production. For 1997 and 1998, data for Alabama exclude Federal Offshore

Notes: Data for 1991 through 1996 are final. All other data are preliminary unless otherwise indicated. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and

Sources: 1991-1996: Energy Information Administration (EIA), Natural Gas Annual 1996.1997 through current month: Form EIA-895, "Monthly Quantity of Natural Gas Report," Minerals Management Service reports, and EIA computations.

roll data for 1991 trillough 1996 include Federal Offshore production. For 1997 and 1998, data for Alabama excl production and data for Louisiana include both the Louisiana and Alabama portions of Federal Offshore production.

^c Federal offshore production volumes are included.

^R = Revised Data

⁼ Revised Data.

⁼ Estimated Data.

RE = Revised Estimated Data.

Table 8. Gross Withdrawals and Marketed Production of Natural Gas by State, January 1998

(Million Cubic Feet)

State		Gross Withdraw	als		Nonhydro-	Vented	
	From Gas Wells	From Oil Wells	Total	Repressuring	carbon Gases Removed ^a	and Flared	Marketed Production
Alabama	35.604	784	36.388	1.195	2.317	137	32.739
Alaska	17.030	289,711	306.740	262,481	0	545	43,715
Arizona	41	1	43	0	0	0	43
California	6.501	27.819	34.320	9.271	161	78	24.810
Colorado	46,969	6,742	53,711	594	0	92	53,025
Florida	0	541	541	0	62	0	479
Kansas	E51,233	^E 4,825	E56,058	E 95	0	[€] 56	[€] 55,907
ouisiana	407,522	61,262	468,785	3,677	0	2,011	463,097
Michigan	E27,777	[€] 6,944	E34,721	^É 245	0	^É 347	E34,129
Mississippi	10,910	634	11,544	921	734	250	9,639
Montana	E4,593	[€] 625	[€] 5,218	ĕ 6	0	E39	^E 5,173
New Mexico	E117,386	E20,348	E137,735	[€] 839	E12,314	E223	E124,359
North Dakota	1,467	3,464	4,931	0	['] 5	304	4,623
Oklahoma	132,435	13,087	145,522	0	0	0	145,522
Oregon	105	0	105	3	13	0	90
Texas	480,980	116,383	597,363	38,658	13,729	2,513	542,462
Jtah	E19,224	[€] 3,916	E23,140	[°] E61	0	E1,261	E21,818
Nyoming	101,444	5,761	107,205	12,989	14,062	14,080	66,074
Other States	E66,538	^E 4,817	E71,354	^É 205	0	^É 742	E70,408
Total	E1,527,760	E567,665	E2,095,425	E331,238	E43,395	E22,679	E1,698,112

a See Appendix A, Explanatory Note 1, for a discussion of data on Nonhydrocarbon Gases Removed.
 E = Estimated Data.
 Notes: All monthly data are considered preliminary until publication of the *Natural Gas Annual* for that year. Totals may not equal sum of components because of independent rounding. See Appendix A, Explanatory Notes 1 and 3 for discussion of computation procedures and revision policy.
 Source: Form EIA-895, "Monthly Quantity of Natural Gas Report."

Table 9. Underground Natural Gas Storage - All Operators, 1992-1998

(Volumes in Billion Cubic Feet)

1994 Totala 4,360 1995 Totala 4,349 1996 January 4,354 February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,332 September 4,338 October 4,335 November 4,339 December 4,341 Total — 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,350 December 4,360 December 4,350 Total —	Working Gas 2,597	Total ^b					
1993 Totala 4,327 1994 Totala 4,360 1995 Totala 4,349 1996 January 4,354 February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,332 September 4,335 November 4,335 November 4,339 December 4,341 Total — 1997 January 4,348 February 4,348 February 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	,		Volume	Percent	Injections	Withdrawals	Net Withdrawals ^c
1993 Totala 4,327 1994 Totala 4,360 1995 Totala 4,349 1996 January 4,354 February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,332 September 4,335 November 4,335 November 4,339 December 4,341 Total — 1997 January 4,348 February 4,348 February 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	,	6.641	-227	-8.0	2,555	2,724	168
1994 Totala 4,360 1995 Totala 4,349 1996 January 4,349 February 4,349 March 4,290 April 4,332 June 4,341 July 4,336 August 4,332 September 4,338 October 4,335 November 4,339 December 4,341 Total — 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	2,322	6,649	-275	-10.6	2,760	2,717	-43
1995 Totala 4,349 1996 January 4,349 February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,332 September 4,338 October 4,335 November 4,339 December 4,341 Total — 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,360 October 4,358 November 4,360 December 4,350	2,606	6,966	284	12.2	2,796	2,508	-288
January 4,354 February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,335 November 4,339 December 4,341 Total	2,153	6,503	-453	3.1	2,566	2,974	408
January 4,354 February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,335 November 4,339 December 4,341 Total							
February 4,349 March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,332 September 4,338 October 4,335 November 4,341 Total	1.462	5,817	-583	-28.5	49	749	700
March 4,290 April 4,312 May 4,332 June 4,341 July 4,336 August 4,338 October 4,335 November 4,339 December 4,341 Total - - 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,360 October 4,358 November 4,360 December 4,350 Total -	1,021	5,369	-521	-33.8	97	544	447
April 4,312 May 4,332 June 4,341 July 4,336 August 4,332 September 4,338 October 4,335 November 4,341 Total	758	5,048	-574	-43.1	80	403	323
May 4,332 June 4,341 July 4,336 August 4,332 September 4,338 October 4,339 December 4,341 Total - - 1997 - January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	854	5,166	-525	-38.1	227	112	-115
June 4,341 July 4,336 August 4,332 September 4,338 October 4,339 December 4,341 Total	1,161	5,493	-507	-30.4	373	45	-328
July 4,336 August 4,332 September 4,338 October 4,335 November 4,339 December 4,341 Total - - 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	1,529	5,870	-485	-24.1	410	35	-375
August 4,332 September 4,338 October 4,335 November 4,339 December 4,341 Total	1,898	6,234	-404	-17.5	418	49	-370
September 4,338 October 4,335 November 4,339 December 4,341 Total — 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	2.245	6.577	-250	-10.0	400	54	-346
October 4,335 November 4,339 December 4,341 Total — 1997 — January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,350 Total —	2,605	6,943	-230 -197	-7.0	398	32	-366
November 4,339 December 4,341 Total — 1997 — January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	2,810	7,145	-186	-6.2	276	73	-203
December 4,341 Total — 1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	2,549	,	-179	-6.2 -6.6	90	7.5 354	-203 264
1997 January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	2,173	6,889 6,513	19	0.9	86	461	374
January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	_	_	_	_	2,906	2,911	6
January 4,348 February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350							
February 4,342 March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	1.496	5.844	34	2.3	69	752	684
March 4,346 April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350	1,140	5,482	120	11.7	55	413	358
April 4,342 May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	991	5,337	233	30.7	131	285	155
May 4,343 June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	1.051	5,393	197	23.1	205	146	-58
June 4,357 July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total	1,362	5,705	201	17.3	362	41	-321
July 4,356 August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total	1,730	6,087	201	13.2	405	41	-364
August 4,357 September 4,360 October 4,358 November 4,360 December 4,350 Total —	2,014	6,369	116	6.1	359	78	-281
September 4,360 October 4,358 November 4,360 December 4,350 Total —	2,336	6,693	92	4.1	378	76 56	-322
October 4,358 November 4,360 December 4,350 Total —	2,672	7.032	67	2.6	380	44	-336
November	2,886	7,032 7,244	75	2.7	295	84	-336 -211
December 4,350 Total —	2,698	7,244	149	5.9	113	302	189
Total –	2,170	6,520	-2	-0.1	45	579	533
		_	_	_	2,796	2,823	27
1998							
January 4,344	1.711	6.055	215	14.4	68	534	466
,	,	-,	278	24.4	74	373	
February	1,418 1,184	5,756 5,523	278 193	24.4 19.5	74 136	373 377	299 241
April(STIFS)	1,184 RE1,455	5,523 RE5,794	^{RE} 404	19.5 RE38.4	NA NA	NA	^{RE} -272
May(STIFS) ^E 4,339	1.400	E6,145	E444	E32.6	NA	NA	E-350

 ^a Total as of December 31.
 ^b Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1991 - 7,993; 1992 - 7,932; 1993 - 7,989; 1994 - 8,043; 1995 -7,927; and 1996 - 8,159.

C Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of injections.

E = Estimated Data.

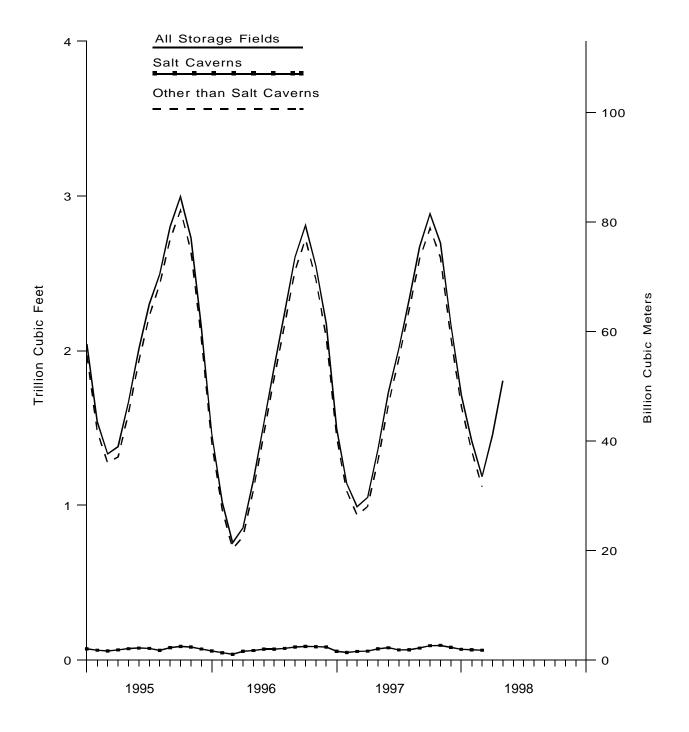
RE = Revised Estimated Data.
NA = Not Available.

⁼ Not Applicable.

Notes: Data for 1992 through 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

Figure 5. Working Gas in Underground Natural Gas Storage in the United States, 1995-1998



Sources: Energy Information Administration, Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 10. Underground Natural Gas Storage - by Season, 1995-1998

(Volumes in Billion Cubic Feet)

Year, Season and Month	Natural Gas in Underground Storage at End of Period			from Sar	Vorking Gas ne Period us Year	Storage Activity			
	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals	Net Withdrawals	
October 1995	4,338	2,996	7,334						
1995-96 Heating Season									
November	4,342	2,728	7,070	-249	-8.4	96	367	272	
December	4,349	2,153	6,503	-453	-17.4	53	635	582	
January	4.354	1,462	5.817	-583	-28.5	49	749	700	
February	4,349	1,021	5,369	-521	-33.8	97	544	447	
March	4,290	758	5,048	-574	-43.1	80	403	323	
Total						375	2,698	2,323	
1996 Refill Season									
April	4,312	854	5,166	-525	-38.1	227	112	-115	
May	4,332	1,161	5,493	-507	-30.4	373	45	-328	
June	4,341	1,529	5,870	-485	-24.1	410	35	-375	
July	4.336	1,898	6,234	-404	-17.5	418	49	-370	
August	4,332	2,245	6,577	-250	-10.0	400	54	-346	
	4,338	2,605	6,943	-197	-7.0	398	32	-366	
September October	4,335	2,803	7,145	-186	-7.0 -6.2	276	73	-203	
Total						2,502	401	-2,102	
1006 07 Hasting Cassen									
1996-97 Heating Season	4.000	0.540	0.000	470	0.0	00	054	004	
November	4,339	2,549	6,889	-179	-6.6	90	354	264	
December	4,341	2,173	6,513	19	0.9	86	461	374	
January	4,348	1,496	5,844	34	2.3	69	752	684	
February	4,342	1,140	5,482	120	11.7	55	413	358	
March	4,346	991	5,337	233	30.7	131	285	155	
Total						431	2,266	1,835	
1997 Refill Season									
April	4,342	1,051	5,393	197	23.1	205	146	-58	
May	4.343	1,362	5,705	201	17.3	362	41	-321	
June	4,357	1,730	6,087	201	13.2	405	41	-364	
July	4.356	2.014	6,369	116	6.1	359	78	-281	
August	4,357	2,336	6,693	92	4.1	378	56	-322	
September	4.360	2.672	7,032	67	2.6	380	44	-336	
October	4,358	2,886	7,244	75	2.7	295	84	-211	
Total						2,384	491	-1,893	
1997-98 Heating Season									
November	4.360	2.698	7.058	149	5.9	113	302	189	
December	4,350	2,170	6,520	-2	-0.1	45	579	533	
January	4,344	1,711	6,055	215	14.4	68	534	466	
February	4,344	1,711	5,756	278	24.4	74	373	299	
March	4,339	1,416	5,523	193	19.5	136	377	241	
Total						^R 436	^R 2,166	R1,730	
1998 Refill Season									
April(STIFS)	RE4,339	RE1,455	RE5,794	RE404	RE38.4	NA	NA	RE-272	
May(STIFS)	[€] 4,339	E1,806	[€] 6,145	E444	€32.6	NA	NA	E-350	

a Negative numbers indicate the volume of injections in excess of withdrawals. Positive numbers indicate the volume of withdrawals in excess of

Na = Not Available.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. Estimates for the most recent two months are derived from the Short-Term Integrated Forecasting System (STIFS). See Explanatory Note 7 of the Natural Gas Monthly for discussion of revision policy. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia.In January 1995, 2 billion cubic feet was added to base gas for two new respondents. Positive net withdrawals indicate the volume of withdrawals.

Sources: Form FIA-191 "Indeptropund Natural Gas Storage Report " Form FIA-176 "Annual Report of Natural and Supplemental Gas Supply and

Sources: Form EIA-191, "Underground Natural Gas Storage Report," Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and STIFS.

injections.

R = Revised Data.
E = Estimated Data.

RE = Revised Estimated Data.
NA = Not Available.

Table 11. Underground Natural Gas Storage - Salt Cavern Storage Fields, 1996-1998 (Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Salt Cavern Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity		
	Base Gas	Working Gas	Total ^a	Volume	Percent	Injections	Withdrawals	Net Withdrawals
1996								
January	63	59	122	-14	-19.3	23	41	17
February	63	48	111	-17	-26.2	23	33	10
March	63	38	101	-21	-35.2	21	32	11
April	63	57	120	-9	-13.7	30	10	-20
May	63	62	126	-11	-15.1	19	13	-6
June	63	71	135	-11 -7	-8.9	21	12	-9
	60	71	131	-7 -5	-6.9 -6.7	20	14	-9 -6
July	60	7 i 76	136	-5 13	-6.7 20.5	20 21	16	-6 -5
August		76 85	145	4	20.5 5.0	23	13	-5 -9
September	60			-				-9 -3
October	60	88	148	0	0.4	17	14	
November	64	87	151	3	4.0	16	20	5
December	64	85	149	14	18.8	25	28	2
Total	_	_	-	_	_	258	246	-13
1997								
January	65	57	122	-2	-3.1	21	50	30
February	59	49	109	2	4.0	15	23	8
March	65	56	121	18	47.3	22	16	-6
April	65	58	123	1	1.8	21	19	-3
May	65	73	138	11	17.3	27	13	-14
June	66	80	145	8	11.7	22	15	-7
July	65	66	131	-5	-7.5	15	29	14
August	65	67	132	-9	-12.4	23	22	-1
September	65	78	143	-7	-8.7	26	14	-12
October	66	93	159	5	5.6	30	14	-16
November	67	95	162	8	9.1	25	23	-2
December	67	82	150	-3	-3.1	18	31	12
Total	_	_	_	_	_	266	270	4
1998								
January	66	70	136	13	22.4	17	31	14
February	65	67	132	18	35.9	17	21	3
March	68	64	132	8	14.4	23	28	6

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1995 - 5,314; and 1996 - 7,952.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas and the District of Columbia. Positive net withdrawals uniform the value of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and

Disposition."

⁼ Not Applicable.

Table 12. Underground Natural Gas Storage - Storage Fields Other than Salt Caverns, 1996-1998

(Volumes in Billion Cubic Feet)

Year and Month	Natural Gas in Non-Salt Cavern Underground Storage at End of Period			Change in Working Gas from Same Period Previous Year		Storage Activity			
	Base Gas	Working Gas	Totala	Volume	Percent	Injections	Withdrawals	Net Withdrawals	
1000									
1996	4 204	1.404	F COF	-569	20.0	20	708	682	
January	4,291	, -	5,695		-28.8	26			
February	4,286	973	5,259	-504	-34.1	73	510	437	
March	4,228	720	4,948	-553	-43.4	59	371	312	
April	4,249	797	5,046	-516	-39.3	197	102	-95	
May	4,268	1,099	5,367	-496	-31.1	354	32	-322	
June	4,277	1,458	5,735	-478	-24.7	390	23	-366	
July	4,276	1,827	6,103	-399	-17.9	398	34	-363	
August	4,272	2,169	6,441	-263	-10.8	380	39	-341	
September	4.277	2.520	6.797	-201	-7.4	376	19	-357	
October	4.275	2.722	6.997	-186	-6.4	259	59	-200	
November	4,275	2,462	6,737	-183	-6.9	75	333	259	
December	4,277	2,087	6,364	6	0.3	61	433	372	
Total	_	_	_	_	_	2,647	2,665	18	
						•	,		
1997									
January	4,283	1,439	5,722	36	2.5	48	702	654	
February	4,283	1,091	5,374	118	12.1	40	390	350	
March	4,281	935	5,216	215	29.9	109	270	161	
April	4,277	993	5,270	196	24.6	184	128	-56	
May	4,278	1,289	5,567	190	17.3	335	28	-307	
June	4.291	1.651	5.942	193	13.2	383	26	-357	
July	4,290	1,948	6,238	121	6.6	344	49	-295	
August	4,291	2,270	6,561	101	4.7	355	34	-321	
September	4,295	2,595	6,890	75	3.0	354	30	-324	
October	4,292	2,793	7.085	70 70	2.6	265	70	-195	
November December	4,293 4.283	2,603 2,088	6,897 6.371	141 0	5.7 0.0	88 27	279 548	191 521	
December	4,203	2,000	0,371	U	0.0	21	546	521	
Total	_	_	_	_	_	2,530	2,553	23	
1998									
January	4,278	1,641	5,920	202	14.0	51	504	453	
February	4,273	1,351	5,624	260	23.9	56	352	296	
March	4,271	1,120	5,391	185	19.8	113	349	236	

^a Total underground storage capacity at the end of each calendar year (in billion cubic feet): 1995 - 5,314; and 1996 - 7,952.

Notes: Data for 1995 and 1996 are final. All other data are preliminary unless otherwise noted. See Explanatory Note 7 of the *Natural Gas Monthly* for discussion of the reporting of underground storage information. Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. Positive net withdrawals indicate the volume of withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

withdrawals in excess of injections. Negative net withdrawals indicate the volume of injections in excess of withdrawals.

Sources: Form EIA-191, "Monthly Underground Gas Storage Report," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

^{– =} Not Applicable.

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998 (Volumes in Million Cubic Feet)

State		1998		1997				
	March	February	January	Total	December	November	October	
Alabama	248	187	396	-162	243	243	-251	
Arkansas	1,039	875	1,057	251	1,526	651	271	
California	-2.257	26.766	29.805	14.425	58,445	2.749	-11.834	
Colorado	3,928	6,337	3,510	384	5,111	2.545	458	
linois	28,186	36,082	58,036	-11,140	45,338	2,735	-28,914	
ndiana	4,249	3,322	4.144	365	4,036	-925	-3,135	
owa	6,692	5,335	18,905	-6,207	16,932	554	-8,358	
Kansas	14.438	8.180	15.103	-12.416	12.485	8.499	-7.912	
Kentucky	7,768	9,981	9,559	3,182	10,772	4,043	-2,925	
ouisiana	7,400	5,164	21,574	-7,721	43,862	21,196	-23,999	
Maryland	1.631	2.745	3.236	-148	1,312	53	-2.283	
Michigan	55,388	45,886	84,170	-702	77,495	53,120	-32,347	
0	416	203	444	-303	77,495 5	33,120	-32,347	
/linnesota					-	•	-	
lississippi	2,405	4,251	7,431	3,703	8,471	1,122	-2,145	
dissouri	423	10	458	-453	228	-207	-215	
Nontana	3,017	2,554	4,421	11,955	3,168	2,753	1,015	
lebraska	1,090	355	376	-1,545	944	126	-66	
lew Mexico	658	-130	-412	2,065	2,500	25	-1,305	
lew York	7,977	9,548	11,582	-131	10,285	4,803	-2,343	
Ohio	28,619	34,023	34,810	-6,964	40,390	15,498	-8,799	
Oklahoma	7,159	737	21,199	-10,892	24,727	13,548	-19,571	
Oregon	934	1,253	540	-1,019	1,036	-250	-93	
Pennsylvania	38.957	49,786	57.788	28,252	53.756	25.976	-16.030	
exas	-9,062	-3,341	35,935	11,896	54,705	19,105	-30,561	
Jtah	1,199	6,783	7,613	-7,571	13,169	2,721	-1,301	
Vashington	3,329	4,131	-58	-904	3.177	90	707	
Vest Virginia	22,818	36,285	30,647	17,744	36,345	6,670	-8,103	
Vyoming	2,611	2,059	3,990	963	3,015	1,918	-577	
GA Regions								
Producing	24.038	15,735	101,887	-13,114	148,276	64.145	-85.222	
Eastern Consuming	204.045	233,545	314,105	22,091	298,078	112,688	-113,768	
Western Consuming	13,177	50,086	50,266	17,929	87,127	12,530	-11,625	
Č								
Total	241,260	299,366	466,258	26,906	533,481	189,363	-210,615	

See footnotes at end of table.

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

				1997			
State	September	August	July	June	May	April	March
llabama	-262	-286	-43	-93	-271	-130	-25
rkansas	-1,048	-1,234	-1,472	-1,340	-608	178	342
California	-6,817	-8,032	-11,406	-23,191	-24,048	-19,220	-441
Colorado	-5,141	-4,488	-5,540	-5,257	-5,328	5,569	2,069
linois	-36,161	-35,848	-32,648	-28,038	-23,880	-546	23,189
ndiana	-4,603	-3,757	-3,309	-1,914	-110	1,444	2,498
owa	-12,762	-10,938	-8,777	-8,361	-3,473	1,627	2,953
Cansas	-13,678	-11,439	-3,703	-12,195	-9,699	-1,605	4,096
Centucky	-7,983	-6,520	-7,391	-8,991	-7,821	-343	4,166
ouisiana	-29,222	-15,259	-11,713	-19,702	-19,500	-3,923	-18,817
Maryland	-2,766	-2,292	-1,497	-1,657	-1,590	133	1,903
/lichigan	-64,478	-72,202	-74,634	-72,604	-46,126	-13,752	53,314
/linnesota	-130	-137	-321	-312	-273	-31	188
Mississippi	-5,204	-3,115	709	-3,812	-5,552	442	-2,306
fissouri	-240	-379	-433	-112	-1,200	56	1,174
Montana	-1,490	-2,339	-2,710	-1,633	-846	1,810	2,591
lebraska	-1,091	-964	-75	-797	-708	-43	-241
lew Mexico	-853	-328	587	-534	-1,228	583	501
New York	-6,626	-11,544	-11,628	-10,571	-7,770	-1,700	9,210
Dhio	-23,418	-32,053	-34,093	-37,335	-34,081	-1,385	21,557
Oklahoma	-14,433	-8,317	-864	-8,028	-18,258	-7,130	-8,092
Oregon	-391	-1,123	-1,240	-1,602	-1,239	543	920
Pennsylvania	-48.951	-44,991	-41.099	-49,619	-44,272	-3.306	50.263
exas	-21,242	-13,220	10,013	-20,500	-27,751	-17,395	-21,183
Jtah	-3,235	-5,284	-8,117	-7,950	-4,255	-2,150	-2,620
/ashington	-2,267	990	-490	-3,766	-5,880	-66	3,217
Vest Virginia	-18,997	-24,020	-26,065	-31,691	-23,964	1,715	23,312
Vyoming	-2,424	-2,712	-3,393	-2,290	-1,119	127	1,082
GA Regions							
Producing	-85,680	-52,913	-6,442	-66,111	-82,596	-28,850	-45,460
Eastern Consuming	-228,337	-245,796	-241,693	-251,783	-195,265	-16,231	193,275
Western Consuming	-21,894	-23,125	-33,218	-46,001	-42,987	-13,416	7,006
Total	-335,912	-321,834	-281,353	-363,895	-320,849	-58,498	154,821

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

	19	97		1996					
State	February	January	Total	December	November	October	Septembe		
labama	184	531	-1,224	761	129	-117	-440		
rkansas	1,006	1,978	64	644	562	-603	-1,153		
alifornia	19,742	38,477	51,292	14,985	-2,885	-6,393	-6,822		
olorado	4,862	5,523	-1,004	2,923	92	-87	-3,828		
inois	39,774	63,858	-15,109	35,109	15,523	-28,103	-36,529		
diana	2,866	7,272	-1,801	3,290	-853	-2,715	-3,911		
wa	8,469	15,926	-1,229	18,020	5,502	-10,555	-12,536		
ansas	9,102	13,633	12,118	12,290	12,828	-6,005	-8,532		
entucky	8,068	18,108	-7,530	8,039	4,853	-2,826	-8,590		
ouisiana	21,080	48,276	10,964	32,273	29,327	-15,704	-33,463		
laryland	2,662	5,873	24	958	1,424	-1,553	-1,677		
lichigan	71,108	120,403	-31,671	83,640	61,160	-49,100	-81,220		
linnesota	117	588	-30	218	30	-35	-202		
lississippi	2,924	12,169	-12,758	4,658	5,707	-3,369	-7,330		
issouri	-252	1,126	-48	76	306	-210	-204		
ontana	3,983	5,651	11,725	5,512	4,760	336	-3,519		
ebraska	504	867	-1,489	1,108	479	600	-785		
ew Mexico	1,527	591	5,338	-823	607	482	-1,873		
ew York	10.116	17,636	-13.367	8,151	6,347	-2.750	-7,327		
hio	28,120	58,636	-10,844	35,138	25,728	-13,648	-23,807		
klahoma	7.912	27,616	22,961	20.970	17,468	-10,345	-18.814		
regon	1,078	1,341	783	1,240	552	170	-121		
ennsylvania	52.298	94,228	-59.533	25.003	33.464	-15.621	-37.711		
exas	24,869	55,056	63,869	24,153	12,557	-22,072	-34,225		
tah	2,520	8,931	12,955	9,164	4,651	1,416	-2,204		
/ashington	1.798	1,587	2.067	1.746	462	1.648	-597		
/est Virginia	28,900	53,643	-35,844	21,644	19,884	-15,242	-28,009		
/yoming	2,976	4,361	5,056	3,529	2,903	-272	-613		
GA Regions									
Producing	68,420	159,319	102,555	94,165	79.056	-57.617	-105,390		
Eastern Consuming	252,817	458,106	-179,663	240,936	173,946	-141,841	-242,746		
Western Consuming	37,076	66,459	82,844	39,316	10,566	-3,217	-17,907		
Total	358,313	683,884	5,735	374,417	263,567	-202,675	-366,042		

Table 13. Net Withdrawals from Underground Storage, by State, 1996-1998

(Volumes in Million Cubic Feet) — Continued

			1:	996		
State	August	July	June	Мау	April	March
llabama	-395	-205	-670	-367	-153	162
ırkansas	-615	-744	-1,166	-1,302	-44	1,259
alifornia	15,439	7,028	-9,697	-23,523	-11,917	1,459
olorado	-3,722	-5,347	-5,035	-2,271	1,268	5,022
inois	-35,172	-35,480	-32,122	-26,711	-3,200	22,829
diana	-6,115	-4,278	-2,398	-178	948	3,532
wa	-13,166	-12,393	-7,677	-1,640	1,980	6,303
ansas	-8,265	-7,537	-12,192	-7,892	-5,779	9,984
entucky	-10,071	-13,358	-14,231	-6,224	380	7,911
ouisiana	-32,218	-29,380	-16,986	-11,703	-2,727	25,245
laryland	-1,845	-1,887	-2,621	-2,154	212	1,827
lichigan	-82,649	-80,355	-78,794	-58,040	-14,063	51,828
innesota	-213	-287	-294	-366	-90	213
ississippi	-7.868	-8.061	-6.662	-2.502	-4.083	6.016
issouri	-206	-240	-261	-1,319	296	384
ontana	-3.501	-3.261	-3.577	782	647	3.884
ebraska	-1.346	-1.193	-1.924	-1.617	-303	802
ew Mexico	363	811	48	21	519	2.200
ew York	-12.585	-12.964	-12.079	-13.349	-2.711	8,971
hio	-29,581	-36,092	-37,165	-30,055	-8,729	29,225
	,	•	•	,	,	,
klahoma	-14,973	-8,211	-10,949	-19,131	-4,435	14,679
regon	-509	-1,318	-1,365	-841	132	651
ennsylvania	-52,038	-69,480	-62,061	-46,338	-22,497	43,459
exas	-18,108	-2,670	-13,902	-28,071	-22,764	43,870
ah	-3,884	-6,821	-6,742	-5,533	-188	2,388
ashington	-1,965	-935	-3,317	-1,973	-356	540
/est Virginia	-19,913	-32,686	-29,535	-32,767	-16,242	26,887
yoming	-771	-2,160	-1,760	-2,704	-644	1,095
GA Regions						
Producing	-81,685	-55,791	-61,809	-70,578	-39,312	103,253
Eastern Consuming	-265,082	-300,612	-281,537	-220,759	-64,083	204,119
Western Consuming	874	-13,101	-31,788	-36,431	-11,149	15,252
Fotal	-345.894	-369.504	-375,133	-327,768	-114.544	322,623

Notes: This table contains total net withdrawals for each State with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. Data through 1996 are final.All other data are preliminary at this time and are not considered final until publication of the *Natural Gas Annual* for that year. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus lowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

Table 14. Activities of Underground Natural Gas Storage Operators, by State, **March 1998**

(Volumes in Million Cubic Feet)

State	Total Storage	Uı	Natural Gas in nderground Sto at End of Perio	rage	from Sar	Vorking Gas ne Period us Year	Storage Activity	
	Capacity	Base Gas	Working Gas	Total	Volume	Percent	Injections	Withdrawals
Alabama	3,280	1,190	337	1,527	-92	-21.4	81	329
Arkansas	31,871	11,095	2,649	13,744	1,106	71.7	130	1,170
California	469,696	247,383	71,237	318,620	-10,811	-13.2	10,654	8,397
Colorado	99,600	48,140	16,476	64,616	-1,316	-7.4	2,103	6,030
Illinois	898,239	651,403	92,702	744,105	17,624	23.5	6,822	35,009
Indiana	113,210	73,777	18,824	92,601	-980	-4.9	83	4,332
lowa	270,200	200,700	11,163	211,863	1,504	15.6	594	7,285
Kansas	298,666	190,410	36,036	226,447	1,400	4.0	6,168	20,606
Kentucky	219,908	109,091	54,288	163,379	-374	-0.7	2,325	10,093
Louisiana	559,473	266,337	113,027	379,364	29,590	35.5	20,969	28,369
Maryland	62,000	46,677	5,465	52,142	2,975	119.5	668	2,299
Michigan	1,052,236	420,700	257,021	677,721	74,632	40.9	10,752	66,140
Minnesota	7,000	4,623	1,309	5,932	132	11.2	0	416
Mississippi	134,012	77,678	28,038	105,716	-4,301	-13.3	5,883	8,289
Missouri	31,126	21,600	8,555	30,155	1,610	23.2	471	894
Montana	375.010	167.374	36.076	203.450	-9.715	-21.2	401	3.418
Nebraska	39,469	31,507	1,673	33,180	854	104.3	234	1,324
New Mexico	96,600	24,170	5,922	30,092	1,647	38.5	445	1,103
New York	173,979	102,980	29,367	132,346	8,753	42.5	1,931	9,908
Ohio	557,452	352,503	29,708	382,211	14,301	92.8	3,875	32,494
Oklahoma	395.087	233.763	49,822	283.585	6,541	15.1	10.428	17,587
Oregon	11,623	4,896	3,259	8,155	1.630	100.1	0	934
Pennsylvania	680.006	354,901	130,748	485.649	24,404	22.9	13,830	52.786
Texas	678,534	254,942	127,291	382,233	29,439	30.1	28,809	19,747
Utah	121,980	62,100	8,245	70,345	-696	-7.8	2,075	3,274
Washington	37,300	22,096	3,282	25,379	76	2.4	295	3,624
West Virginia	484,597	296,399	30,296	326,694	2.808	10.2	5,955	28,773
Wyoming	105,869	60,729	11,014	71,742	94	0.9	11	2,621
AGA Regions								
Producing	2,194,242	1,058,395	362,785	1,421,180	65,423	22.0	72,832	96,871
Eastern Consuming		2,663,428	670,146	3,333,575	148,018	28.3	47,621	251,666
Western Consuming		617,342	150,898	768,240	-20,607	-12.0	15,539	28,715
J		,	,	•	•		,	,
Total	8.008.021	4,339,165	1,183,829	5,522,994	192,834	19.5	135,992	377,251

Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals during the Notes: Gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting het injections of withdrawais during the period to the quantity of gas in storage at the beginning of the period. This is due to changes in the quantities of native gas included in base gas and/or losses in base gas due to migration from storage reservoirs. Totals may not equal sum of components because of independent rounding. Geographic coverage is the 50 States and the District of Columbia. The American Gas Association (AGA) publishes weekly estimates of working gas levels in underground storage by region. AGA defines the Producing Region as Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas, and Mississippi; the Eastern Consuming Region as all States east of the Mississippi River less Mississippi, plus lowa, Nebraska and Missouri; the Western Consuming Region as all States west of the Mississippi River less the Producing Region and Iowa, Nebraska and Missouri.

Source: Form EIA-191, "Monthly Underground Gas Storage Report."

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD	19	98	1997
State	1998	1997	1996	February	January	Total
labama	18,911	18,387	22,115	9,222	9,689	48,328
laska	2,264	4,020	4,473	25	2,240	15,284
rizona	12,707	11,070	9,664	5,604	7,103	31,162
rkansas	12,004	16,039	17,721	6,668	5,336	42,472
alifornia	158,512	141,791	124,786	76,210	82,302	486,233
olorado	NA	NA	35,077	17,178	NA	NA
onnecticut	11,848	12,793	15,306	5,585	6,263	NA
elaware	2,768	3,160	3,619	1,360	1,408	8,920
strict of Columbia		,				
	4,774	5,363	6,386	2,365	2,409	15,698
orida	5,373	4,235	5,398	2,550	2,823	14,538
eorgia	38,197	37,574	43,690	18,031	20,167	114,282
awaii	108	100	100	52	55	.518
laho	5,207	5,106	4,879	2,232	2,975	NA
inois	131,563	169,392	177,614	53,146	78,417	497,370
diana	ŃA	59,073	62,261	20,668	ŃA	ŃA
wa	23,821	29,449	30,006	10,261	13,560	81,357
ansas	25,089	27,908	30,657	11,594	13,494	75,968
	,	,	,		,	75,960 NA
entucky	19,133	22,906	24,856	8,515	10,618	NA.
ouisiana	17,264	18,726	22,149	7,953	9,311	
aine	305	299	302	153	153	1,009
aryland	23,660	25,767	30,222	11,052	12,609	77,109
assachusetts	32,592	ŇA	37,913	15,644	16,948	ŇA
lichigan	105,613	124,416	132,173	48,977	56,636	379,431
innesota	36,626	45,705	48,095	15,023	21,603	132,392
lississippi	NA	10,017	12,051	4,564	NA	ŇA
lissouri	NA	48,925	51,152	18,966	NA	NA
ontana	5,822	6,935	6,815	2,404	3,418	20,995
ebraska	14,544	17,521	17,033	6,642	7,902	47,115
evada	9,175	8,295	7,008	4,149	5,025	25,154
ew Hampshire	2,150	2,197	2,340	1,010	1,140	25,154 NA
•						
ew Jersey	60,113	70,438	78,293	29,313	30,800	212,726
ew Mexico	12,221	12,950	11,723	4,337	7,884	36,380
ew York	90,480	130,758	129,237	42,032	R48,448	R400,876
orth Carolina	20,513	20,051	24,455	9,710	10,803	52,993
orth Dakota	3,472	4,297	4,034	1,561	1,910	11,900
hio	94,438	117,722	127,863	43,910	50,527	354,654
klahoma	25,425	26,607	29,348	11,652	13,774	71,745
regon	10,698	11.166	10,633	4,581	6,117	33,055
ennsylvania	66,241	87,280	97,608	34,714	31,526	262,306
hode Island	5,500	5,781	6,461	2,720	2,781	18,162
outh Carolina	10.000	10.000	10 544	E 477	E 400	05 475
outh Carolina	10,609	10,090	12,544	5,177	5,432	25,475
outh Dakota	3,861	4,824	4,564	1,666	2,196	13,225 NA
ennessee	NA	24,881	28,597	9,546	NA	
exas	67,354	75,860	82,090	30,500	36,854	211,229
ah	16,589	18,242	17,126	8,193	8,396	58,099
ermont	824	835	885	397	427	2,631
rginia	22,613	24,866	28,352	11,067	11,546	73,716
ashington	NA NA	20,262	19,173	13,518	NA NA	ŇA
est Virginia	10,705	11,599	13,560	5,171	5,534	35,150
isconsin	37,706	45,488	47,968	15,618		136,335
/yoming	37,706 NA	3,903	47,968 4,178	1,560	22,087 NA	11,816
,		3,000	.,	.,000		,510
Total	1,473,954	1,673,710	1,764,554	674,749	^R 799,205	R5,008,794

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998

State			1:	997		
State	December	November	October	September	August	July
lahama	7,914	3,963	1,435	1,250	1,238	1,392
labamalabama laska	2,162	1,684	1,569	743	402	463
	,	,	,			
rizona	4,780	1,980	1,057	1,127	910	1,019
rkansasalifornia	6,375 69,510	4,018 40,537	1,346 24,905	949 21,772	918 20,951	1,028 26,840
ala sa da	40.540	NA	NA	NA NA	NA	NA
olorado	16,540		NA NA			
onnecticut	5,901	3,625		1,001	903	949
elaware	1,206	667	250	183	178	194
istrict of Columbia	2,312	1,414	553	393	372	419
lorida	2,038	1,192	755	699	742	785
eorgia	19,723	16,465	6,777	3,190	2,944	3,195
awaii	45	42	39	40	41	43
laho	2,372	1,429	639	NA	294	346
linois	69,685	56,316	29,486	11,697	10,111	10,378
idiana	NA NA	17,458	NA NA	3,491	2,989	2,852
owa	12,039	8,592	4,027	1,645	1,472	1,593
ansas	11,319	8,812	2.419	1,629	1,616	1,862
	11,319	8,075	2,419 NA	1,448	1,077	1,002
entuckyouisiana	,	,	NA			,
ouisiana laine	8,007 142	4,321 107	66	1,697 30	1,671 26	1,685 21
		101	00	00	20	2.
laryland	10,927	8,296	3,543	2,067	1,800	1,906
lassachusetts	15,274	10,140	4,780	2,555	2,437	2,831
lichigan	49,980	37,898	17,835	8,767	7,264	4,748
finnesota	17,705	15,376	6,811	2,864	2,556	2,706
lississippi	4,327	2,545	896	NA	ŇA	NA
dissouri	19,007	12,077	NA	2,625	2,403	2,717
Montana	3,197	2,030	1,230	508	447	411
lebraska	5,790	4,401	1,382	936	937	1,015
levada	3,867	1,917	1,019	802	777	887
lew Hampshire	933	616	327	NA	155	160
ew Jersey	30,622	19,893	8,843	5,309	4,680	5,102
lew Mexico	8,162	4,067	1,209	830	843	815
	R50,610	R35,378	R16,616	^R 9,976	R10,405	R10,440
lew York	,	,	,	,		,
orth Carolinalorth Dakota	9,219 1,471	4,884 1,178	1,441 474	935 229	900 206	1,074 228
OIII Dakola	1,471	1,170	4/4	229	206	220
hio	51,089	37,009	19,335	7,228	6,202	7,533
klahoma	11,053	6,181	1,966	1,548	1,519	1,679
Pregon	4,834	2,809	1,498	737	670	836
ennsylvania	37,823	26,338	12,987	6,315	4,714	5,153
thode Island	2,509	1,464	659	473	443	480
outh Carolina	4,634	2,399	631	466	444	512
outh Dakota	1,734	1,329	569	261	233	248
ennessee	11,064	6,385	1,905	1,187	1,080	1,119
exas	33,619	19,418	8,261	6,416	6,101	6,829
tah	10,374	6,017	4,299	1,957	1,466	1,501
	•					
ermont	345	214	118	59	52	57
irginia	11,657	7,430 NA	3,007	1,640	1,473 NA	1,576
/ashington	NA		NA	NA		NA
/est Virginia	5,431	3,949	1,358	784	594	488
/isconsin	19,157	16,222	8,154	2,974	2,550	2,878
Vyoming	1,142	1,175	646	330	252	294
	^R 731,121			R131,678	R119,301	R130,980

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State			1	997		
State	June	May	April	March	February	January
labama	1,604	2,638	3,180	5,326	9,098	9,290
laska	508	789	1,177	1,767	1,618	2,402
rizona	1,154	1,571	2,259	4,235	5,092	5,978
	,					
rkansasalifornia	1,240 23,572	2,324 28,707	3,293 39,271	4,942 48,377	7,754 66,688	8,285 75,103
alara da	NA	NA	0.000	NA	NA	NA
olorado			8,929			
onnecticut	1,380	2,332	4,378	5,176	6,538	6,255
elaware	318	557	942	1,265	1,612	1,549
istrict of Columbia	562	944	1,316	2,049	2,655	2,708
lorida	856	944	1,013	1,279	2,068	2,167
eorgia	3,357	3,834	8,221	9,001	16,024	21,550
awaii	41	42	41	46	49	51
laho	433	939	1,464	1,909	2,542	2,564
inois	11,617	26,081	41,192	61,416	69,338	100,053
diana	4,958	9,482	15,219	20,684	26,294	32,779
wa	2,102	3,938	6,971	9,528	11,881	17.568
	,	,	,	,	,	,
ansas	1,652	3,581	6,402	8,769	12,105	15,803
entucky	1,572	2,954	4,883	7,293	8,964	13,942
ouisiana	2,050	2,824	3,680	5,619	8,991	9,736
laine	34	56	85	142	133	166
laryland	2,677	4,215	6,913	8,998	12,080	13,687
lassachusetts	4,370	6,917	12,122	15,127	17,654	NA
lichigan	12,010	26,958	38,256	51,299	57,545	66,871
linnesota	3,499	6,775	11,435	16,959	19,966	25,740
lississippi	920	1,463	1,904	3,038	4,968	5,050
fissouri	3,665	6,474	11,030	15,422	23,426	25,499
Montana	631	1,143	1,996	2,468	3,038	3,897
lebraska	1,367	3,177	4,355	6,232	7,829	9,692
levada	981	1,419	2,018	3,172	3,825	4,470
ew Hampshire	263	465	744	913	1,136	1,061
our loroov	6 457	11 250	10 120	24 004	24.700	25 720
ew Jersey	6,457	11,258	18,139	31,984	34,709	35,729
ew Mexico	238	1,952	1,503	3,810	5,630	7,320
lew York	R15,312	R27,004	R41,729	R52,648	^R 63,646	^R 67,111
orth Carolina	1,599	2,991	4,087	5,811	10,002	10,050
orth Dakota	333	730	1,178	1,576	1,984	2,313
hio	9,785	21,575	33,023	44,153	52,497	65,225
klahoma	2,105	3,857	6,160	9,070	12,687	13,920
regon	1,029	1,920	3,206	4,350	5,308	5,857
ennsylvania	7,583	15,446	25,130	33,537	41,287	45,992
hode Island	727	1,171	1,994	2,462	2,891	2,890
outh Carolina	701	1,230	1,776	2,592	4.994	5,097
outh Dakota	368	784	1,250	1,625	2,089	2,735
ennessee	NA NA	3,019	4,797	NA	12,086	12,795
exas	7,595	10,420	14,025	22,686	33,154	42,706
tah	1,601	1,821	4,875	5,945	8,366	9,876
	07	400	202	202	440	440
ermont	97	189	283	383	416	419
irginia	2,054	4,227	6,662	9,123	11,741	13,126
/ashington	3,055	5,591	4,586	8,132	9,377	10,885
/est Virginia	961	2,246	3,421	4,318	5,630	5,969
/isconsin	2,965	7,456	11,112	17,378	19,323	26,165
/yoming	395	1,076	1,058	1,544	1,660	2,243
Total	R160,568	R286,052	R434,687	R605,838	^R 766,614	R907,096

Table 15. Natural Gas Deliveries to Residential Consumers, by State, 1996-1998

04-4-			19	96		
State	Total	December	November	October	September	August
Alak	50.500	0.004	0.404	4.047	4 004	4 007
Alabama	,	6,664	3,461	1,647	1,321	1,227
\laska	,	2,181	1,708	1,238	589	544
Arizona		4,051	2,322	1,082	900	836
Arkansas	,	6,286	3,768	1,425	1,044	955
California	473,310	62,905	43,702	30,462	26,104	21,757
Colorado	110,924	15,814	9,571	4,886	2,773	2,505
Connecticut	43,764	5,842	3,522	1,840	992	954
Delaware	9,791	1,236	648	291	181	175
District of Columbia	17,290	2,406	1,252	578	401	380
lorida		1,583	972	752	690	658
Georgia	127,062	18,574	14,651	5,771	3,092	2,972
ławaii	,	44	41	39	41	40
daho		2,224	1,570	646	364	277
llinois		80,922	63,715	28,081	13,137	9,546
ndiana	,	26,087	18,577	7,846	3,617	9,546 3,117
					,	
owa	,	14,138	9,782	3,620	1,954	1,610
(ansas	,	14,388	9,447	3,163	1,973	1,640
Centucky		10,177	9,022	3,018	1,389	1,253
ouisiana	56,626	6,173	3,511	2,102	1,836	1,831
Maine	967	120	105	67	28	23
Maryland	85,533	11,426	7,828	3,738	2,207	2,064
Massachusetts		13,947	9,943	5,012	2,677	2,463
Michigan		52,724	38,862	18,528	9,068	7,300
Minnesota	,	22,152	14,959	6,705	2,968	2,433
Mississippi	,	3,676	1,880	929	804	771
Miccouni.	427.225	20.520	44.007	4 224	2.740	0.440
Alexander	,	20,539	11,687	4,321	2,749	2,448
Montana	,	3,286	2,458	1,267	634	431
Nebraska		7,283	4,043	2,173	1,017	932
Nevada		3,386	2,069	894	732	678
New Hampshire	7,012	855	667	312	169	155
New Jersey	222,619	29,983	18,933	9,917	5,472	4,715
New Mexico	33,689	5,663	3,689	1,330	844	836
lew York	403,264	ŇA	ŃΑ	ŇA	NA	NA
North Carolina	58,812	8,607	4,461	1,701	913	862
North Dakota		1,894	1,256	554	256	209
Ohio	374,824	52,480	38,565	18,651	7,026	6,306
Oklahoma	,	11,298	5,722	2,267	1,679	1,515
Oregon	,	5,200	3,164	1,357	821	673
		36,688	27,037	13,202	5,907	5,295
Pennsylvania Rhode Island		2,350	1,416	738	5,907 467	5,295 450
	,					
South Carolina		4,336	2,168	800	476	419
South Dakota	,	2,243	1,414	578	316	231
ennessee	,	10,177	5,949	1,987	1,190	1,101
exas	,	33,952	17,793	9,479	7,495	6,534
Jtah	54,344	8,203	5,749	4,215	2,540	1,416
/ermont	2,523	302	208	100	56	47
/irginia		10,946	7,388	2,879	1,414	1,424
Vashington		9,804	6,207	2,930	1,572	1,250
Vest Virginia	,	5,166	3,391	1,609	696	537
Visconsin		21,285	16,724	7,783	3,130	2,726
Vyoming		1,744	1,334	1,087	3,130	2,720
					407.550	
Total	5,241,414	737,722	502,981	243,121	137,556	118,296

R = Revised Data.
NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.
Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD	19	1997	
State	1998	1997	1996	February	January	Total
labama	8,539	8,287	9,410	4,010	4,529	34,239
llaska	4,384	5,240	6,291	1,501	2,883	23,254
rizona	7,663	7,384	6,694	3,534	4,129	30,178
rkansas	8,856	9,853	10,659	4,075	4,781	29,518
alifornia	59,245	51,923	46,754	28,787	30,457	254,440
olorado	NA	NA	20,658	8,852	NA	NA
onnecticut	11,297	11,138	11,479	5,540	5,757	NA
elaware	1,834	2,071	2,281	899	935	^R 6,547
istrict of Columbia	4,924	4,651	4,089	2,382	2,542	17,034
orida	9,041	7,987	9,003	4,457	4,583	37,644
oorgio	16 501	16 506	19 220	9 120	0.474	E7 474
eorgia	16,591	16,506	18,329	8,120	8,471	57,474 NA
awaii	376	376	391	179	196	
aho	3,546	3,600	3,517	1,570	1,977	11,435
inois	52,989	67,184	69,863	22,455	30,533	205,941
diana	NA	28,522	29,288	10,460	NA	NA
wa	13,900	17,193	17,561	5,962	7,938	50,218
ansas	13,556	15,319	16,642	6,177	7,378	ŃA
entucky	10,721	12,689	13,594	5,053	5,668	NA
ouisiana	9,509	7,553	7,848	4,998	^R 4,511	25,704
aine	844	7,333	799	422	422	2,713
andand	40.404	40.404	44400	0.474	0.050	50.055
aryland	13,134	13,461	14,162	6,474	6,659	53,255
assachusetts	28,087	27,678	25,659	14,371	13,716	105,883
ichigan	49,583	61,036	62,915	23,664	25,919	197,276
innesota	26,391	28,983	29,610	11,133	15,257	93,655
ississippi	NA	6,288	6,870	3,310	NA	NA
lissouri	NA	25,383	24,555	9,467	NA	NA
lontana	3,637	4,505	4,468	1,459	2,178	13,932
ebraska	9,140	10,751	10,228	4,237	4,903	42,107
evada	5,653	5,340	4,775	2,575	3,078	21,822
ew Hampshire	2,218	2,152	2,292	1,051	1,167	NA NA
!	20.040	20.407	45.005	40.740	00.000	4.47.000
ew Jersey	38,912	36,107	45,285	18,713	20,200	147,228
ew Mexico	7,752	8,088	7,293 NA	3,243	4,509	26,151
ew York	66,836	80,563		31,659	R35,177	R340,605
orth Carolina	12,285	11,909	13,334	5,791	6,495	38,942
orth Dakota	3,187	3,861	3,614	1,434	1,753	11,392
hio	51,037	59,957	63,725	23,991	27,046	182,416
klahoma	14,828	14,907	15,730	6,859	7,969	43,776
regon	7,198	7,697	7,438	3,308	3,889	25,380
ennsylvania	41,245	42,089	49,074	19,674	21,571	146,712
hode Island	3,406	3,439	3,881	1,620	1,786	12,303
outh Carolina	5,736	5,488	5,918	2,781	2,955	20,713
outh Dakota					2,955 1,621	10.426
	2,913 NA	3,652	3,506	1,292	I,Ö∠I NA	10,426 NA
ennessee		18,572	19,259	6,063		
exas	53,679	48,813	39,832	29,399	24,280	R208,746
ah	8,778	9,525	9,152	4,235	4,544	31,130
ermont	923	921	903	436	487	3,051
irginia	17,071	16,691	16,747	8,398	8,673	61,430
ashington	ŃÁ	13,749	13,149	8,122	ŃA	ŃA
est Virginia	9,660	7,555	8,342	6,096	3,564	26,927
isconsin	22,533	27,994	29,822	9,845	12,688 NA	92,418
	,555				,000	92,410 NA
/yoming	ŃA	3,104	2,380	1,288	NA	NA.

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

84-4-			1:	997		
State	December	November	October	September	August	July
labama	3,740	2,540	2,107	2,375	3,087	3,497
laska	2,748	2,304	2,221	1,336	1,104	1,167
rizona	3,386	2,273	1,754	1,839	1,770	1,939
rkansas	3,996	2,726	1,352	1,133	1,132	1,133
alifornia	26,174	21,235	19,673	18,468	18,728	17,971
olorado	8,532	NA	NA	NA	NA	NA
onnecticut	5,776	3,208	NA	1,560	1,754	1,895
elaware	^R 864	520	282	233	183	206
strict of Columbia	2,293	1,354	899	852	853	783
orida	3,833	3,203	2,687	2,561	2,651	2,578
	7.004	6.146	2.654	0.044	2 626	2.700
eorgiaawaii	7,991 185	6,146 NA	3,654 171	2,811 166	2,626 160	2,709 175
aho	1,657	982	585	411	356	373
nois	27,467				5.935	
diana	27,467 NA	23,244	12,431 5 146	6,546 2,667	,	6,084
ulalia		9,608	5,146	2,667	2,551	2,428
wa	7,166	5,681	3,031	1,358	1,110	1,306
ansas	NA	4,780	2,508	2,087	2,685	3,283
entucky	6,217	4,223	ŃΑ	1,268	967	1,176
ouisiana	2,987	1,988	1,330	1,250	1,195	1,350
aine	375	289	176	91	78	72
aryland	6,365	8,614	2,917	2,271	2,226	2 270
aryland	,	,	,	,	,	2,378
assachusetts	11,544	8,664	7,063	5,488	5,776	5,555
ichigan	26,512	19,536	10,084	6,211	5,889	2,278
innesotaississippi	12,420 2,928	10,831 2,026	5,320 1,157	2,563 NA	2,522 NA	2,496 NA
ισοισοιρμι	2,320	2,020				
issouri	9,543	6,200	NA	2,196	2,054	2,151
ontana	2,005	1,299	793	423	383	363
ebraska	4,247	3,487	2,351	1,868	2,896	5,042
evada	2,567	1,797	1,270	1,192	1,145	1,097
ew Hampshire	1,010	703	411	ŃΑ	217	216
ew Jersey	20,186	13,739	7,215	6,062	5,793	6,094
	,	2,423	1,160	1,020	997	984
ew Mexico	3,956 ^R 36,071	_ ′	R15,051	R _{18,287}	R22,102	R23,940
ew York		R27,233		,		,
orth Carolina	5,608	3,490	2,057	1,751	1,629	1,548
orth Dakota	1,374	1,163	588	344	291	305
nio	25,219	17,840	9,823	5,006	4,408	4,153
klahoma	5,673	3,390	2,126	1,659	1,626	1,649
regon	3,341	2,016	1,363	1,023	912	1,007
ennsylvania	20,160	14,246	9,659	5,298	3,779	4,680
node Island	1,413	1,212	637	460	399	431
with Carolina	0.074	4 774	4.470	4.004	4.040	007
outh Carolina	2,671	1,771	1,176	1,904	1,019	997
outh Dakota	1,312	1,022	549	334	250	246
ennessee	8,120	5,216	2,846	2,120	2,064	2,090
xas	R23,104	R18,448	14,187	15,035	15,234	15,315
ah	5,152	3,187	2,020	1,124	943	927
ermont	403	282	184	108	80	80
rginia	8,549	5,455	3,489	2.392	2,449	2,370
ashington	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
est Virginia	3,447	2,904	1,576	1,195	1,292	1,044
isconsin	12,954	10,586	5,664	2,901	2,961	2,769
yoming	1,092	1,065	633	2,901 NA	345	2,769 943
, - g	.,002	.,000			0.0	2.10
Total						

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

Ctata	1997								
State	June	Мау	April	March	February	January			
llabama	1,779	2,020	2,194	2,613	4,063	4,224			
ılaska	1,191	1,546	1,914	2,482	2,198	3,042			
rizona	1,976	2,141	2,563	3,153	3,525	3,858			
rkansas	1,219	1,653	2,172	3,149	4,730	5,123			
alifornia	16,572	18,994	21,091	23,612	26,107	25,816			
olorado	NA	NA	6,121	NA	NA	NA			
onnecticut	1,986	2,586	4,055	4,797	5,346	5,792			
elaware	281	420	628	858	1,046	1,025			
	951	1,373	842		,				
istrict of Columbia		,		2,183	2,316	2,335			
lorida	2,917	2,902	3,017	3,307	3,862	4,126			
eorgia	2,800	3,216	4,152	4,864	7,924	8,582			
awaii	170	166	174	180	188	188			
laho	399	686	1,041	1,345	1,784	1,816			
inois	6,145	10,664	16,797	23,444	30,059	37,125			
diana	6,344	9,965	7,610	10,465	12,807	15,715			
	4.000	0.070	2.070	E 750	7.050	40.407			
wa	1,262	2,376	3,976	5,758	7,056	10,137			
ansas	2,078	2,798	4,004	6,012	8,130	7,190			
entucky	1,181	1,890	2,913	4,093	5,483	7,206			
ouisiana	1,408	1,492	1,837	3,313	3,574	3,979			
aine	92	152	231	378	348	433			
aryland	2,305	2,735	4,420	5,563	6,380	7,080			
assachusetts	7,151	,	9,068	11,630	13,854	13,824			
	,	6,266	,	,	,	,			
lichigan	7,664	13,205	19,207	25,654	28,433	32,603			
linnesota	3,004 1,176	5,155 1 227	8,361	12,000	13,403	15,580			
lississippi	1,170	1,237	1,533	2,106	3,062	3,226			
lissouri	2,457	3,569	5,786	7,970	12,828	12,556			
lontana	451	714	1,342	1,652	1,947	2,558			
ebraska	1,728	2,430	3,190	4,117	4,845	5,907			
evada	1,409	1,666	1,896	2,442	2,629	2,711			
ew Hampshire	286	472	739	954	1,079	1,073			
eur Jereeu	7.007	0.046	10.645	24 542	44.044	24 907			
ew Jersey	7,027	9,816	13,645	21,543	14,211	21,897			
ew Mexico	960	1,766	1,862	2,935	3,938	4,151			
ew York	^R 24,103	^R 25,257	^R 31,231	R36,768	^R 41,464	R39,099			
orth Carolina	1,770	2,401	2,973	3,806	5,850	6,059			
orth Dakota	343	619	1,095	1,408	1,879	1,982			
hio	6,276	11,339	15,190	23.205	28,174	31,783			
klahoma	1,517	2,617	3,571	5,041	7,183	7,724			
regon	1,067	1,574	2,304	3,076	3,686	4,011			
•	,			,					
ennsylvania	5,554	10,354	13,007	17,888	19,583	22,506			
hode Island	537	892	1,144	1,740	1,744	1,694			
outh Carolina	1,214	1,278	1,379	1,816	2,689	2,799			
outh Dakota	283	604	940	1,235	1,607	2,045			
ennessee	NA	3,242	4,276	ŃA	9,488	9,084			
exas	11,993	12,860	13,790	R19,967	21,368	27,444			
ah	946	1,268	2,675	3,363	4,473	5,051			
ormont	108	160	296	429	444	477			
ermont		160							
rginia	2,681	4,381	5,762	7,212	8,021	8,670			
ashington	2,917	4,098	4,100	5,627	6,275	7,474			
est Virginia	1,181	1,693	2,222	2,816	3,652	3,903			
isconsin	2,868	5,507	7,225	10,989	12,071	15,922			
/yoming	633	1,065	1,445	1,593	1,423	1,681			

Table 16. Natural Gas Deliveries to Commercial Consumers, by State, 1996-1998

. .			199	96		
State	Total	December	November	October	September	August
ah awa	00.000	0.400	4 004	4.400	4.007	4 400
abama	29,002	3,123	1,991	1,402	1,207	1,133
aska	27,315	3,236	2,743	2,337	1,617	1,396
izona	29,102	3,259	2,461	1,748	1,680	1,753
kansas	31,009	3,876	2,462	1,356	1,106	1,060
alifornia	236,332	24,836	21,313	18,727	17,544	17,540
olorado	68,931	9,028	5,807	3,306	2,227	2,156
onnecticut	39,818	4,902	3,112	2,400	1,822	1,714
elaware	6,695	821	502	277	223	203
strict of Columbia	16,353	2,325	1,195	804	774	750
orida	41,898	3,830	3,179	2,957	2,840	2,716
oorgia	61,377	7,462	5.450	3,339	2,673	2,594
eorgia	,	,	5,450	,	,	,
awaii	2,132	176	160	170	171	166
aho	11,540	1,621	1,107	597	421	354
nois	218,086	32,425	25,216	12,090	7,125	5,314
diana	87,568	12,378	9,122	4,102	2,202	2,104
wa	54,576	8,510	5,896	2,101	1,926	1,080
ansas	57,231	9,187	4,867	2,057	1,286	3,505
entucky	40,980	5,892	4,439	2,241	1,194	1,123
puisiana	25,769	2,435	1,680	1,395	1,305	1,321
aine	2,566	310	280	172	78	75
and and	45.004	E 400	4.000	0.407	4.000	4.000
aryland	45,891	5,433	4,693	2,427	1,922	1,866
assachusetts	96,192	11,752	9,718	5,432	4,767	4,274
chigan	201,431	26,123	19,486	9,472	6,146	5,383
innesota	98,580	15,009	10,756	5,479	2,867	2,254
ississippi	22,230	2,333	1,631	1,088	1,078	1,198
issouri	72,833	10,204	6,136	2,959	2,235	2,356
ontana	14,836	2,123	1,659	848	498	374
ebraska	40,833	5,032	3,678	2,778	2,273	2,489
evada	20,469	2,417	1,817	1,269	1,116	1,062
ew Hampshire	7,099	896	698	360	201	193
ow Jorgov	150 422	10 024	12 596	7 721	E 970	E E26
ew Jersey	150,432	18,834	12,586	7,731	5,870	5,536
ew Mexico	26,544	3,553 NA	2,450 NA	1,365 NA	1,079 NA	1,352 NA
ew York	253,129					
orth Carolinaorth Dakota	40,467 12,165	5,160 1,726	3,240 1,286	1,917 661	1,658 410	1,575 301
Juli Bakota	12,100	1,720	1,200	001	410	301
hio	190,195	26,298	18,274	8,548	4,048	4,401
klahoma	46,284	6,014	3,273	1,900	1,759	1,678
regon	25,622	3,595	2,314	1,306	1,023	905
ennsylvania	154,677	22,333	15,107	8,161	4,302	4,365
node Island	12,301	1,290	972	648	581	443
outh Carolina	20,329	2,447	1,644	1,157	1,041	957
	11,602	1,813	1,237	571	352	283
outh Dakota		,				
nnessee	58,513	7,599	5,116	2,830	2,354	1,979
xas	178,573	18,053	12,865	10,151	8,830	12,079
ah	29,666	4,220	3,185	2,073	1,279	874
ermont	2,825	348	276	162	90	69
rginia	59,294	7,489	5,776	3,363	2,401	2,081
ashington	48,252	6,623	4,489	2,701	1,920	1,697
est Virginia	28,030	3,400	2,494	1,620	1,171	1,259
isconsin	93,868	13,368	11,029	4,694	2,376	2,294
yoming	9,735	1,748	1,301	640	250	197

R = Revised Data.
NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Deliveries for total year 1996 may not equal the sum of the twelve months. Gas volumes delivered for use as vehicle fuel are included in the annual total but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD	19	98	1997
State	1998	1997	1996	February	January	Total
labama	34,923	33,874	34,624	16,441	18,483	206,129
llaska	12,606	13,538	10,922	6,152	6,454	73,863
rizona	4,759	3,986	4,598	2,226	2,533	27,134
rkansas	25,453	25,939	25,195	12,114	13,339	147,046
alifornia	131,540	114,611	116,322	67,501	64,039	731,180
olorado	NA	NA	15,201	5,806	NA	NA
onnecticut	6,551	6,119	4,856	3,149	3,402	35,031
elaware	3,048	2,435	2,252	1,443	1,604	14,841
istrict of Columbia	0	0	0	0	0	, .
lorida	24,050	24,048	23,495	11,148	12,902	NA
eorgia	27,143	31,429	28,019	13,335	13,808	170,988
awaii	0	01,425	0	0	0	170,300
laho ^a	6,826	5,968	6,397	3,482	3,344	35,089
inois	61,927	64,523	68,877	28,719	33,208	316,352
ndiana	01,927 NA	54,881	54,458	25,847	33,206 NA	NA
nwa.	20 026	20 522	20.722	0.516	11 201	111 400
onaa	20,836	20,522	20,732	9,516	11,321	111,430 NA
ansas	17,509	19,909	19,886	7,811	9,697	NA.
entucky	17,390	19,447	18,841	7,550	9,839	
ouisiana	156,090	161,408	167,497	73,162	82,928	983,217
laine	404	342	335	202	202	2,525
laryland	24,376	8,973	6,780	10,677	13,699	61,353
assachusetts	18,366	19,994	16,843	8,443	9,923	R110,880
lichigan	65,360	66,116	69,036	31,380	33,980	326,414
linnesota	19,215	19,545	17,530	10,044	9,171	102,200
lississippi	ŃΑ	14,023	14,858	6,814	ŃA	ŃA
lissouri	NA	16,560	15,291	6,360	NA	NA
lontana	3,333	3,547	3,432	1,449	1,884	18,122
ebraska	6,382	6,068	6,899	2,902	3,481	31,322
evada	3,865	5,137	5,320	1,979	1,885	31,100
ew Hampshire	978	822	693	498	481	NA NA
our loroov	36,634	24 011	34,142	17.655	18,980	202,654
ew Jersey ew Mexico	3,806	34,911 4,727	4,441	1,823	1,984	24,853
		,	,		R25,113	
ew York	51,622 21,157	59,638	57,854 14,310	26,509	,	R325,392
orth Carolina	21,157	19,118	14,310	10,404	10,752	116,320
orth Dakota	1,958	2,286	1,305	948	1,010	10,999
hio	67,691	68,679	72,580	31,779	35,912	336,659
klahoma	33,628	37,703	35,500	17,131	16,497	205,823
)regon	18,504	14,928	13,071	8,744	9,760	89,782
ennsylvania	42,926	46,625	46,141	20,811	22,115	R235,913
hode Island	4,183	4,124	2,745	2,011	2,173	24,470
outh Carolina	18,773	16,207	12,558	9,129	9,645	115,115
outh Dakota	1,065	1,668	1,242	500	565	6,961
ennessee	NA NA	24,487	22,162	12,628	NA NA	NA NA
exas	267,278	347,737	357,795	117,801	149,477	NA
tah	8,815	7,507	7,626	4,080	4,735	44,290
armont	407	277	070	205	222	0.007
ermont	427	377	270	205	223	2,337
irginia	14,191 NA	16,569	14,997	7,444	6,747 NA	84,644 NA
/ashington		18,282	19,847	11,107		
/est Virginia	6,206	8,222	8,461	1,696	4,510	51,114
/isconsin	29,635 NA	32,919	31,921	13,298	16,337 NA	152,545 NA
/yoming	NA.	8,852	8,890	5,777	NA.	NA.

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998

Stot-	1997							
State	December	November	October	September	August	July		
11	40.755	47.040	47.404	40.450	40.007	40.046		
labama	18,755	17,910	17,161	16,150	16,827	16,848		
laska	6,876	5,571	6,313	4,233	6,395	5,968		
rizona	2,688	2,360	2,335	2,582	2,375	2,246		
rkansas	13,202	12,751	12,471	11,035	11,994	11,785		
alifornia	63,859	61,447	60,283	65,816	67,815	65,810		
olorado	7,088	NA	NA	NA	NA	NA		
onnecticut	3,422	3,408	2,588	2,362	2,550	2,440		
elaware	1,580	1,327	1,202	1,107	1,017	1,106		
istrict of Columbia	0	0	0	0	0	Ć		
lorida	12,641	12,056	12,083	NA	11,529	12,164		
eorgia	12,800	12,468	12,817	12,855	13,575	12,874		
awaii	0		0	0	0	12,074		
daho a	3,159	3,109	3,226	2,756	2,371	2,723		
linois	30,515	27,702	24,750	22,004	20,706	22,431		
	30,313 NA			,	,			
ndiana		26,650	23,332	21,152	20,475	19,853		
wa	10,686	10,199	9,886	8,468	8,680	7,768		
ansas	NA	8,212	7,830	7,321	7,998	11,607		
entucky	9,442	8,835	NA	7,052	7,079	6,526		
ouisiana	81,573	80,707	84,368	82,780	83,946	80,979		
laine	216	296	243	208	191	178		
laryland	13,713	263	4,308	4,427	5,019	4,767		
lassachusetts	9,185	8,316	8,095	7,625	8,946	8,930		
lichigan	31,551	27,735	24.470	23,655	23.705	16,029		
linnesota	9,571	9,674	8,759	7,183	7,771	6,780		
lississippi	7,043	7,238	6,572	NA NA	NA NA	NA		
lia a a coni	0.704	0.057	NA	4.000	4.000	4 400		
lissouri	6,701	6,057		4,322	4,338	4,492		
lontana	2,064	1,850	1,612	1,290	1,253	1,093		
ebraska	3,723	1,923	2,697	2,050	2,627	1,207		
evada	2,530	2,499	2,689	2,654	2,675	2,517		
ew Hampshire	468	442	499	NA	451	422		
ew Jersey	17,569	15,519	16,683	16,219	17,715	16,450		
ew Mexico	2,146	2,019	1,881	1,982	1,957	2,097		
ew York	R27,393	R27,674	R21,794	R26,738	^R 24,589	R27,876		
lorth Carolina	10,426	9,608	9,568	9,017	9,696	9,102		
orth Dakota	929	869	812	754	817	473		
hio	32,492	30,107	26,986	24,750	24,078	22,725		
klahoma	16,600	15,704	15,473	16,687	17,620	16,618		
	9,596	8,694	8,284	8,041	8,313	7,289		
Oregon	,	,	,	,	,	,		
ennsylvaniahode Island	20,983 2,179	21,509 2,148	17,230 1,509	16,783 1,440	17,206 1,491	R16,881 2,159		
	,	,		,		•		
outh Carolina	9,344	8,702	8,239	8,883	10,653	17,104		
outh Dakota	606	618	425	470	499	322		
ennessee	12,466	8,602	11,242	13,313	13,153	10,831		
exas	174,230	162,492	165,162	ŇA	172,857	166,725		
tah	4,504	4,129	4,228	2,497	3,369	3,482		
ermont	235	226	224	176	157	144		
irginia	7,773	6,522	5,914	6,951	8,927	8,064		
/ashington	ŇA	ŇA	ŇA	NA	ŇÁ	ŇA		
/est Virginia	4,610	4,353	4,150	4,032	4,106	3,991		
/isconsin	14,848	14,202	11,931	10,069	9,521	9,041		
Vyoming	4,102	4,328	NA NA	NA NA	3,672	3,234		

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998 (Million Cubic Feet) — Continued

State	1997							
	June	May	April	March	February	January		
Laboration	40.050	47.004	40.400	40.005	40.044	47.504		
llabama	16,253	17,284	18,182	16,885	16,341	17,534		
laska	5,915	5,619	6,443	6,993	6,448	7,090		
rizona	2,170	2,332	1,989	2,071	1,944	2,041		
rkansas	11,598	11,903	12,008	12,361	12,195	13,744		
alifornia	58,874	58,119	57,480	57,065	55,756	58,855		
olorado	NA	NA	6,831	NA	NA	NA		
onnecticut	2,441	2,870	3,308	3,521	3,031	3,088		
elaware	1,156	1,308	1,354	1,249	1,192	1,243		
istrict of Columbia	0	0	0	0	0	0		
lorida	11,539	12,515	12,365	11,905	11,527	12,521		
oorgia	12,448	16,828	16,740	16,153	16,385	15,044		
eorgiaawaii	0	0,020	0	0,133	0	13,044		
aho ^a	2,724	2,673	3,180	3,200	2,802	3,166		
inois	22,272	25,139	26,550	29,761	31,673	32,850		
diana	17,289	19,839	23,608	26,703	25,597	29,284		
wa	7,823	8,516	9,081	9,800	9,785	10,738		
	,	,	,		,	,		
ansas	8,284	8,904	8,519	9,297	8,058	11,851		
entucky	6,669	7,704	7,769	8,408	8,964	10,483		
ouisiana	82,324	83,780	82,622	78,729	78,331	83,077		
aine	197	226	247	182	162	180		
aryland	5,126	4,734	4,495	5,528	4,661	4,312		
assachusetts	10,487	8,389	10,392	10,520	10,375	^R 9,619		
ichigan	25,327	27,343	27,854	32,629	32,134	33,982		
linnesota	7,681	7,566	8,338	9,333	10,082	9,463		
ississippi	6,054	5,804	6,535	6,721	6,686	7,337		
lissouri	4,810	4,987	7,149	5,099	9,463	7,097		
lontana	1,176	1,365	1,178	1,695	1,634	1,913		
ebraska	2,343	2,465	3,051	3,167	3,090	2,979		
					,			
evada	2,519	2,791	2,424	2,665	2,462	2,675		
ew Hampshire	434	905	632	570	411	411		
ew Jersey	15,822	16,773	16,587	18,406	15,694	19,217		
ew Mexico	2,041	2,123	1,935	1,944	2,119	2,608		
ew York	^R 25,785	^R 25,745	^R 27,455	R30,706	R31,100	R28,538		
orth Carolina	9,195	9,687	10,561	10,341	9,950	9,168		
orth Dakota	707	911	867	1,574	1,253	1,033		
hio	22,461	26,644	27,049	30,688	32,631	36,048		
klahoma	17,536	17,339	17,335	17,207	18,790	18,914		
regon	5,557	6,033	6,322	6,726	6,525	8,402		
ennsylvania	16,359	18,780	21,556	22,001	23,241	23,384		
hode Island	2,265	2,401	2,514	2,241	1,993	23,364		
outh Carolina	0.454	0.122		0.450				
outh Carolina	8,451	9,122	9,260	9,152	8,054	8,152		
outh Dakota	492 NA	531	624	705 NA	792	877		
ennessee		11,767	12,548		12,789	11,698		
exas	165,999	166,759	164,032	182,742	160,683	187,054		
ah	3,408	3,633	3,757	3,777	3,698	3,809		
ermont	146	218	200	234	197	181		
irginia	5,864	7,452	6,449	4,162	8,056	8,513		
ashington	8,005	8,513	8,189	9,259	9,170	9,112		
est Virginia	3,905	4,439	6,731	2,577	3,836	4,386		
/isconsin	9,458	11,310	13,597	15,650	14,948	17,970		
/yoming	3,858	4,125	3,864	3,795	3,792	5,060		
		,	,	,	· ·	,		

Table 17. Natural Gas Deliveries to Industrial Consumers, by State, 1996-1998

Alabama 201.414 17.016 16.951 18.097 16.712 15.5 Alaska 75.616 7.034 6.450 6.421 6.288 6.5 Alacona 26.979 2.536 2.436 2.363 2.246 2.1 Alacona 26.979 2.536 2.436 2.363 2.246 2.1 Alacona 693,539 61.618 59.107 57.199 57.688 62.7 Colorado 38.540 7.861 7.271 5.109 6.270 7.7 Connecticut 32.451 3.013 3.386 3.108 2.589 2.2 Colorado 13.2451 3.013 3.388 3.108 2.589 2.2 Colorado 13.2451 3.013 3.389 3.108 2.589 2.2 Colorado 13.2451 3.013 3.389 3.108 2.589 2.2 Colorado 13.2451 3.013 3.389 3.108 2.589 3.1085 3.1085 3.1093 3.109	Ctata			19	96		
Isaska	State	Total	December	November	October	September	August
aska 75,616 7,034 6,450 6,421 6,288 6,52 12cona 26,979 2,536 2,436 2,363 2,246 2,21 141,300 12,552 12,171 12,008 10,821 11,4 1alifornia 693,539 61,618 59,107 57,199 57,688 62,70 obrado 83,840 7,881 7,271 5,00 6,270 7,7 obrado 32,451 3,013 3,386 3,108 2,589 2,5 sistici of Columbia 0 0 0 0 0 0 0 orida 138,722 11,160 11,855 10,931 11,324 11,1 acergia 181,768 15,926 15,856 15,599 15,136 15,5 acergia 181,768 15,926 15,856 15,599 15,136 15,2 acergia 181,768 15,920 30,672 2,4666 19,734 20,1 acergia	lahama	201 414	17.016	16.051	19.007	16 712	15.066
26,979 2,536 2,436 2,363 2,246 2,2		- /		,	,	,	,
kansas 141,300 12,552 12,171 12,008 10,821 11,14 alidifomia 693,539 61,618 59,107 57,199 576,688 62,70 polorado 83,640 7,861 7,271 5,109 6,270 7,7 polorado 32,451 3,013 3,386 3,108 2,589 2,5 polorado 14,164 1,148 1,180 1,338 1,138 1,13 polorida 15,022 11,100 11,655 10,931 11,3224 11,1 portida 181,768 15,926 15,856 15,569 15,136 15,60 portida 34,177 2,881 2,747 3,023 2,02 2,2 1,1,1 3,1 3,1 3,1							6,961
Section Sect							2,125
Dolardo		,					11,492
onnecticut 32.451 3,013 3,386 3,108 2,589 2,52 eleaware 141,164 1,148 1,180 1,338 1,138 1,	alifornia	693,539	61,618	59,107	57,199	57,688	62,705
Selaware		,			,		7,792
sistict of Columbia 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							2,561
orida		14,164	1,148	1,180	1,338	1,138	1,116
eorgia 181,768 15,926 15,856 15,569 15,136 15,836 awaii 0 0 0 0 0 0 0 aho* 34,577 2,891 2,747 3,023 2,802 2,4 nois 322,275 35,802 30,672 24,666 19,734 20,5 wa 113,995 10,955 11,178 9,460 7,445 8,6 ansas 110,294 9,372 9,897 7,314 8,141 9,8 ansas 110,294 9,372 9,897 7,314 8,141 9,8 ausiana 1,048,432 86,865 89,171 89,370 87,576 87,50 aryland 50,022 4,956 3,981 4,196 4,055 4,3 aryland 50,022 4,956 3,981 4,196 4,055 4,3 aryland 50,022 4,956 3,981 4,196 4,055 4,3 aryland 5	strict of Columbia	0	0	0	0	0	0
awaii 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	orida	136,722	11,160	11,655	10,931	11,324	11,135
awaii 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	eorgia	181,768	15,926	15,856	15,569	15,136	15,887
aho * 34,577 2,891 2,747 3,023 2,802 2,4 nois 322,275 35,802 30,672 24,666 19,734 20,6 diana 289,219 25,886 24,549 23,056 20,528 19,7 wa 113,995 10,955 11,178 9,460 7,445 8,6 ansas 110,294 9,372 9,897 7,314 8,141 9,8 entucky 94,481 9,646 8,705 7,555 6,589 6,2 ubisiana 1,048,432 86,865 89,171 89,370 87,576 87,5 aine 2,190 171 234 239 185 7,3 aine 2,190 171 234 239 185 7,3 aine 3,470,43 32,754 29,900 25,126 24,187 23,3 innesota 10,271 9,903 10,656 9,236 7,719 7,7 ississippi 80,887 6,503 6,507 7,363 6,432 6,2 issouri 71,533 6,510 6,157 4,963 4,54 abraska 36,125 3,689 3,179 3,248 2,452 2,2 avada 32,606 2,859 2,705 2,548 2,728 2,7 avalad 32,606 2,859 2,705 2,548 2,728 2,7 avalad 34,149 3,111 39,242 27,432 2,996 24,127 1,7 avalad 32,661 31,374 2,6765 25,488 25,312 2,6 avalad 34,149 3,111 30,242 27,432 2,996 23,4 bito 347,149 33,111 30,242 27,432 2,996 2,46 bito 347,149 33,111 30,242 27,432 2,296 2,46 bito 347,149 33,111 30,242 27,432 2,2996 2,47 b	•	,	,	,	,	,	0
inois 322,275 35,802 30,672 24,666 19,734 20,5 diana 289,219 25,886 24,549 23,056 20,528 19,7 wa 113,995 10,955 11,178 9,460 7,445 8,6 ansas 110,294 9,372 9,887 7,314 8,141 9,5 antucky 4,481 9,646 8,705 7,555 6,589 6,5 suitisiana 10,48,432 86,865 89,171 89,370 87,576 87,5 aine 2,190 171 234 239 185 7,344 4,955 4,5 antucky 10,48,432 10,000 171 234 239 185 12,190 171 234 239 185 1,000		-			-	-	2,409
widing 289,219 25,886 24,549 23,056 20,528 19,7 wa 113,995 10,955 11,178 9,460 7,445 8.8 ansas 110,294 9,372 9,897 7,314 8,141 9,84 entucky 94,481 9,646 8,705 7,555 6,589 6,6 aine 2,190 171 234 239 185 7,66 87,76 87,5 aryland 50,022 4,966 3,981 4,196 4,065 4,36 aryland 50,022 4,966 3,981 4,196 4,065 4,22							20,575
wa				,			19,795
ansas 110,294 9,372 9,887 7,314 8,141 9,8 entucky 94,481 9,646 8,705 7,555 6,589 6,589 octisiana 1,048,432 86,865 89,171 89,370 87,576 87,5 aine 2,190 171 234 239 185 185 21 aryland 50,022 4,956 3,981 4,196 4,055 4,3 aryland 50,022 4,956 3,981 4,196 4,055 4,3 exascalusetts 100,015 9,252 8,643 9,419 8,119 9,0 (chigan 347,043 32,754 29,990 25,126 24,187 23,7 innesota 102,471 9,903 10,656 9,236 7,719 7,4 ississippi 80,887 6,503 6,507 7,363 6,432 6,3 issouri 71,533 6,510 6,157 4,963 4,540 5,5 issouri 71,533 6,510 6,157 4,963 4,540 5,5 issouri 71,533 6,510 6,157 4,963 4,540 5,5 issouri 81,8103 1,985 1,668 1,554 1,382 1,4 ebraska 36,125 3,689 3,179 3,248 2,452 2,4 evada 32,606 2,869 2,705 2,548 2,728 2,7 evada 32,606 2,869 2,705 2,548 2,728 2,7 evada 32,606 2,869 2,705 2,548 2,728 2,7 ew Hampshire 4,916 404 529 471 339 5 ew Hampshire 4,916 404 529 471 339 5 ew Hampshire 4,916 404 529 471 392 5 ew York 322,661 31,374 26,765 25,488 25,312 26,01th Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Carolina 201,024 19,194 15,941 16,689 16,741 17,74 ergen 87,754 8,499 21,069 22,617 19,275 17,697 18,2 enricy and 32,439 21,099 22,617 19,275 17,697 18,2 enricy and 32,4349 21,099 22,617 19,275 17,697 18,2 enricy and 34,4349 31,441 15,44 11,44 151 11,44 14	uiai ia	203,213	25,000	24,049	23,050	20,320	19,795
antucky 94.481 9.646 8.705 7.555 6.589 6.2 builsians 1,048.432 86,885 89,171 89,370 87,576 87,5 87,5 aine 2,190 171 234 239 185 175 87,5 aine 2,190 171 234 239 185 185 171 81,370 87,576 87,5 87,5 aine 2,190 171 234 239 185 185 187,5 aine 2,190 171 234 239 185 187,9 aine 2,100 171 234 239 18,119 30,10 180 180 180 180 180 180 180 180 180 1		- ,				,	8,696
buisiana 1,048,432 86,865 89,171 89,370 87,576 87,5 aine 2,190 171 234 239 185 1 aryland 50,022 4,956 3,981 4,196 4,055 4,5 assachusetts 100,015 9,252 8,643 9,419 8,119 9,0 ichigan 347,043 32,754 29,990 25,126 24,187 23,7 innesota 102,471 9,903 10,656 9,236 7,719 7,4 ississippi 80,887 6,503 6,507 7,363 6,432 6,2 issouri 71,533 6,510 6,157 4,963 4,540 5,8 issouri 71,533 6,510 6,157 4,963 4,540 5,8 issouri 71,533 6,510 6,157 4,963 4,540 5,8 issouri 71,533 6,610 6,157 4,963 4,540 5,8 issouri	ansas	110,294	9,372	9,897	7,314	8,141	9,817
aine 2,190 171 234 239 185 1 aryland 50,022 4,956 3,981 4,196 4,055 4,5 assachusetts 100,015 9,252 8,643 9,419 8,119 9,0 citchigan 347,043 32,754 29,990 25,126 24,187 23,7 innesota 102,471 9,903 10,656 9,236 7,719 7,4 sississippi 80,887 6,503 6,507 7,363 6,432 6,2 sissouri 71,533 6,510 6,157 4,963 4,540 5,6 ontana 18,103 1,985 1,688 1,554 1,382 1,4 ebraska 36,125 3,689 3,179 3,248 2,452 2,4 evada 32,606 2,659 2,705 2,548 2,728 2,4 ew Hampshire 4,916 404 529 471 392 3 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew Mexico 22,858 2,173 1,875 1,799 1,751 1,7 ew York 322,661 31,374 26,765 25,488 25,312 26,5 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Dakota 7,911 924 955 685 552 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 eregon 87,754 8,498 8,526 8,657 7,954 7,6 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 ennessee 126,545 12,264 12,388 10,679 10,240 9,6 ermont 1,953 191 211 174 151 1 ermont 1,953 191 244 4,484 4,484 4,484 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,489 4,48	entucky	94,481	9,646	8,705	7,555	6,589	6,259
aine 2,190 171 234 239 185 1 aryland 50,022 4,956 3,981 4,196 4,055 4,3 assachusetts 100,015 9,252 8,643 9,419 8,119 9,0 tichigan 347,043 32,754 29,990 25,126 24,187 23,7 tinnesota 102,471 9,903 10,656 9,236 7,719 7,4 innesota 102,471 9,903 10,656 9,236 7,719 7,4 ississispip 80,887 6,503 6,507 7,363 6,432 6,2 issouri 71,533 6,510 6,157 4,963 4,540 5,8 ontana 18,103 1,985 1,668 1,554 1,382 1,4 ebraska 36,125 3,689 3,179 3,248 2,452 2,4 evada 32,606 2,859 2,705 2,548 2,728 2,7 ew Hampshire 4,916 404 529 471 392 3 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew York 322,661 31,374 26,765 25,488 25,312 26,5 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Dakota 7,911 924 955 685 552 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 encorrection 95,493 8,846 8,699 8,836 7,982 8,1 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh Carolina 95,493 8,646 8,699 8,836 7,982 7,444 8,444 8,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,444 4,	ouisiana	1,048,432	86,865	89,171	89,370	87,576	87,989
assachusetts 100,015 9,252 8,643 9,419 8,119 9,0 ichigan 347,043 32,754 29,990 25,126 24,187 23,7 innesota 102,471 9,903 10,656 9,236 7,719 7,4 ississippi 80,887 6,503 6,507 7,363 6,432 6,2 issouri 71,533 6,510 6,157 4,963 4,540 5,6 ontana 18,103 1,985 1,668 1,554 1,382 1,4 ebraska 36,125 3,889 3,179 3,248 2,452 2,4 evada 32,606 2,859 2,705 2,548 2,728 2,7 ew Harnsphire 4,916 404 529 471 392 3 ew Jersey 20,933 27,230 17,727 14,853 14,574 11,7 ew Merkico 22,858 2,173 1,875 1,799 1,751 1,7 ew Morkico 22,858 2,173 1,875 1,799 1,751 1,7 <tr< td=""><td></td><td>2,190</td><td>171</td><td></td><td>239</td><td></td><td>177</td></tr<>		2,190	171		239		177
assachusetts	arvland	50 022	4 956	3 981	4 196	4 055	4,335
ichigan 347,043 32,754 29,990 25,126 24,187 223, innesota 102,471 9,903 10,656 9,236 7,719 7,4 ississippi 80,887 6,503 6,507 7,363 6,432 6,2 issouri 71,533 6,510 6,157 4,963 4,540 5,6 issouri 71,533 6,510 6,157 4,963 4,540 5,6 issouri 18,103 1,985 1,668 1,554 1,382 1,4 ebraska 36,125 3,689 3,179 3,248 2,452 2,4 evada 32,606 2,859 2,705 2,548 2,728 2,7 ew Hampshire 4,916 404 529 471 392 3 ew Hampshire 4,916 404 529 471 392 3 ew Hampshire 4,916 404 529 471 392 5 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew York 322,661 31,374 26,765 25,488 25,312 26,5 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Carolina 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 ergon 87,754 8,498 8,526 8,657 7,954 7,6 ergon 87,755 8,755 8,755 8,755 8,755 8,755 8,755 8,755 8,7		,		,	.,	,	9,040
innesota 102,471 9,903 10,656 9,236 7,719 7,4 ississispipi 80,887 6,503 6,507 7,363 6,432 6,2 ississispipi 80,887 6,503 6,507 7,363 6,432 6,2 ississispipi 80,887 6,503 6,507 7,363 6,432 6,2 6,2 ississispipi 80,887 6,503 6,507 7,363 6,432 6,2 6,2 ississispipi 80,887 6,503 6,507 7,363 6,432 6,2 6,2 6,2 6,2 6,2 6,2 6,2 6,2 6,2 6,							
ississippi 80,887 6,503 6,507 7,363 6,432 6,23 issouri 71,533 6,510 6,157 4,963 4,540 5,6 ontana 18,103 1,985 1,668 1,554 1,382 1,4 beraska 36,125 3,689 3,179 3,248 2,452 2,4 evada 32,606 2,859 2,705 2,548 2,728 2,7 ew Hampshire 4,916 404 529 471 392 3 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew Mexico 22,858 2,173 1,875 1,799 1,751 1,7 ew Mexico 322,661 31,374 26,765 25,488 25,312 26,50 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,5 orth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,4							7,451
contana 18,103 1,985 1,668 1,554 1,382 1,482 2,452 2,482 2,452 2,482 2,452 2,24 2,24 2,24 2,272 2,24 2,272 3,272							6,200
lontana 18,103 1,985 1,668 1,554 1,382 1,482 ebraska 36,125 3,689 3,179 3,248 2,452 2,482 2,782 2,705 2,548 2,728 2,728 2,728 2,705 2,548 2,728 2,728 2,728 2,728 2,728 2,728 2,728 2,728 2,728 2,728 2,7428 2,728 2,7428 2,728 2,7428 2,728 2,7428 2,7428 2,728 2,7428 2,7428 2,7428 2,7428 2,7428 2,7428 2,7428 2,7428 2,7428 2,7428 2,7432 2,9488 2,5312 2,686 3,1374 26,765 25,488 25,312 26,69 26,661 31,374 26,765 25,488 25,312 26,69 26,661 31,374 26,765 25,488 25,312 26,60 26,661 31,374 26,765 25,488 25,312 26,60 26,661 31,374 26,765 25,488 25,312 26,80 26,765 25,488	Paramet	74 500	0.540	0.457	4.000	4.540	5.000
ebraska 36,125 3,689 3,179 3,248 2,452 2,4 evada 32,606 2,859 2,705 2,548 2,728 2,7 ew Hampshire 4,916 404 529 471 392 3 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew Mexico 22,858 2,173 1,875 1,799 1,751 1,7 ew York 322,661 31,374 26,765 25,488 25,312 26,6 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh Dakota 7,182 715 694 523 427 4 ennessee 126,545 12,264 12,388 10,679 10,240 9,8 exas 2,138,155 181,384 171,353 181,999 186,067 171, tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 riginia 84,357 9,782 7,474 6,080 5,162 7,1 riginia 49,997 4,443 4,418 4,310 4,596 3,5 rlyoning 50,253 4,647 4,741 4,678 3,699 3,8 rlyoning 50,253 4,647 4,741 4,678 3,699 3,8		,				,	5,883
evada 32,606 2,859 2,705 2,548 2,728 2,7 ew Hampshire 4,916 404 529 471 392 3 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew Mexico 22,858 2,173 1,875 1,799 1,751 1,7 ew Mexico 322,661 31,374 26,765 25,488 25,312 26,6 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh Dakota 7,182 715 694 523 427 4 ennessee 126,545 12,264 12,388 10,679 10,240 9,8 exas 21,38,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 riginia 84,357 9,782 7,474 6,080 5,162 7,1 riginia 142,36 9,758 10,859 10,660 10,161 9,8 riginia 49,997 4,443 4,418 4,310 4,596 3,8 rigining 50,253 4,647 4,741 4,678 3,699 3,8				,			1,429
ew Hampshire 4,916 404 529 471 392 32 ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew Mexico 22,858 2,173 1,875 1,799 1,751 1,7 ew York 322,661 31,374 26,765 25,488 25,312 26,5 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,5 orth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 hode Island 25,829 2,553 2,992 3,189 2,921 2,8 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh							2,467
ew Jersey 200,933 27,230 17,727 14,853 14,574 11,7 ew Mexico 22,858 2,173 1,875 1,799 1,751 1,7 ew York 322,661 31,374 26,765 25,488 25,312 26,5 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Dakota 7,911 924 955 685 552 4 1 1,000		,					2,787
ew Mexico 22,858 2,173 1,875 1,799 1,751 1,79 ew York 322,661 31,374 26,765 25,488 25,312 26,5 orth Carolina 104,124 9,413 9,964 10,368 8,412 8,3 orth Dakota 7,911 924 955 685 552 4	ew Hampshire	4,916	404	529	471	392	393
ew York 322,661 31,374 26,765 25,488 25,312 26,50rth Carolina 104,124 9,413 9,964 10,368 8,412 8,50rth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,441 10,368 8,412 8,50 10,5	ew Jersey	200,933	27,230	17,727	14,853	14,574	11,728
ew York 322,661 31,374 26,765 25,488 25,312 26,50rth Carolina 104,124 9,413 9,964 10,368 8,412 8,50rth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,441 10,368 8,412 8,50 10,5	ew Mexico	22,858	2,173	1,875	1,799	1,751	1,774
orth Carolina 104,124 9,413 9,964 10,368 8,412 8,5 orth Dakota 7,911 924 955 685 552 2 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 outh Carolina 25,829 2,553 2,992 3,189 2,921 2,5 outh Dakota 7,182 715 694 523 427 4 exas 126,545 12,264 12,388 10,679 10,240 9,8 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont<		322,661	31.374			25.312	26,927
orth Dakota 7,911 924 955 685 552 4 hio 347,149 33,111 30,242 27,432 22,996 23,4 klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh Dakota 7,182 715 694 523 427 4 exas 126,545 12,264 12,388 10,679 10,240 9,6 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 remont							8,358
klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh Dakota 7,182 715 694 523 427 4 ennessee 126,545 12,264 12,388 10,679 10,240 9,8 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 riginia 84,357 9,782 7,474 6,080 5,162 7,1 (ashington							425
klahoma 201,024 19,194 15,941 16,689 16,741 17,0 regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 outh Carolina 95,493 8,646 8,699 8,836 7,982 8,1 outh Dakota 7,182 715 694 523 427 4 ennessee 126,545 12,264 12,388 10,679 10,240 9,8 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 riginia 84,357 9,782 7,474 6,080 5,162 7,1 (ashington	hio	347 149	33 111	30 242	27 432	22 996	23,427
regon 87,754 8,498 8,526 8,657 7,954 7,8 ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 buth Carolina 95,493 8,646 8,699 8,836 7,982 8,1 buth Dakota 7,182 715 694 523 427 4 ennessee 126,545 12,264 12,388 10,679 10,240 9,6 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 riginia 84,357 9,782 7,474 6,080 5,162 7,1 vashington 114,236 9,758 10,859 10,660 10,161 9,6 visconsin		,				,	17,073
ennsylvania 243,499 21,089 22,617 19,275 17,697 18,2 hode Island 25,829 2,553 2,992 3,189 2,921 2,5 buth Carolina 95,493 8,646 8,699 8,836 7,982 8,1 buth Dakota 7,182 715 694 523 427 4 ennessee 126,545 12,264 12,388 10,679 10,240 9,6 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 etah 24,213 3,693 3,663 3,592 3,436 3,5 ermont 1,953 191 211 174 151 1 erginia 84,357 9,782 7,474 6,080 5,162 7,1 eashington 114,236 9,758 10,859 10,660 10,161 9,6 est Virginia 49,997 4,443 4,418 4,310 4,596 3,5 fisconsin 149,517 15,456 14,652 11,984 9,773 9,2 fyoming 50,253 4,647 4,741 4,678 3,699 3,8							
hode Island 25,829 2,553 2,992 3,189 2,921 2,500 2,553 2,992 3,189 2,921 2,500 2,553 2,992 3,189 2,921 2,500							7,886
bouth Carolina 95,493 8,646 8,699 8,836 7,982 8,1 bouth Dakota 7,182 715 694 523 427 42 cennessee 126,545 12,264 12,388 10,679 10,240 9,8 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 riginia 84,357 9,782 7,474 6,080 5,162 7,1 (ashington 114,236 9,758 10,859 10,660 10,161 9,8 fest Virginia 49,997 4,443 4,418 4,310 4,596 3,5 fisconsin 149,517 15,456 14,652 11,984 9,773 9,2 fyorning 50,253 4,647 4,741 4,678 3,699 3,8		-,	,	, -	,	,	18,213 2,998
buth Dakota 7,182 715 694 523 427 42 ennessee 126,545 12,264 12,388 10,679 10,240 9,8 exas 2,138,155 181,384 171,353 181,999 186,067 171,8 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 irginia 84,357 9,782 7,474 6,080 5,162 7,1 'ashington 114,236 9,758 10,859 10,660 10,161 9,8 'est Virginia 49,997 4,443 4,418 4,310 4,596 3,8 'fyoming 50,253 4,647 4,741 4,678 3,699 3,8							
ennessee 126,545 12,264 12,388 10,679 10,240 9,6 exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,5 ermont 1,953 191 211 174 151 1 1 174 151 1 1 174 151 1 1 174 151 1 1 174 151 1 1 174 151 1 1 174 151 1 1 174 151 1 1 174 151 1 1 1 174 151 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		,		,	,	,	8,162
exas 2,138,155 181,384 171,353 181,999 186,067 171,5 tah 42,213 3,693 3,663 3,592 3,436 3,3 ermont 1,953 191 211 174 151 1 irginia 84,357 9,782 7,474 6,080 5,162 7,1 /ashington 114,236 9,758 10,859 10,660 10,161 9,8 /est Virginia 49,997 4,443 4,418 4,310 4,596 3,5 /isconsin 149,517 15,456 14,652 11,984 9,773 9,2 /yoming 50,253 4,647 4,741 4,678 3,699 3,8							471
tah							9,810
ermont	exas	2,138,155	181,384	171,353	181,999	186,067	171,985
rginia 84,357 9,782 7,474 6,080 5,162 7,1 ashington 114,236 9,758 10,859 10,660 10,161 9,8 lest Virginia 49,997 4,443 4,418 4,310 4,596 3,9 lisconsin 149,517 15,456 14,652 11,984 9,773 9,2 lyoming 50,253 4,647 4,741 4,678 3,699 3,8	tah	42,213	3,693	3,663	3,592	3,436	3,374
irginia 84,357 9,782 7,474 6,080 5,162 7,1 'ashington 114,236 9,758 10,859 10,660 10,161 9,8 'est Virginia 49,997 4,443 4,418 4,310 4,596 3,5 'isconsin 149,517 15,456 14,652 11,984 9,773 9,2 'yoming 50,253 4,647 4,741 4,678 3,699 3,8	ermont	1,953	191	211	174	151	155
/ashington 114,236 9,758 10,859 10,660 10,161 9,8 /est Virginia 49,997 4,443 4,418 4,310 4,596 3,5 /isconsin 149,517 15,456 14,652 11,984 9,773 9,2 /yoming 50,253 4,647 4,741 4,678 3,699 3,8	irginia	84,357	9,782	7,474	6,080	5,162	7,113
/est Virginia 49,997 4,443 4,418 4,310 4,596 3,6 /isconsin 149,517 15,456 14,652 11,984 9,773 9,2 /yoming 50,253 4,647 4,741 4,678 3,699 3,6	•						9,892
/isconsin							3,932
/yoming 50,253 4,647 4,741 4,678 3,699 3,6	•						9,274
							3,851
Total	Total	0 070 422	906 905	764 207	736 000	705 999	703,997

 ^a Small volumes of natural gas representing onsystem sales to industrial consumers in Idaho are included in the annual total but not in monthly components.
 Deliveries for total year 1995 in Idaho do not equal the sum of the twelve months.
 ^R = Revised Data.
 NA = Not Available.
 — = Not Applicable.
 — Stot Applicable.

^{— =} Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

(Million Cubic Feet)

State	YTD	YTD	YTD	19	98	1997
State	1998	1997	1996	February	January	Total
labama	519	281	217	157	362	9,996
laska	5,159	5,659	5,412	2,307	2,852	33,51
rizona	1,765	677	1,576	804	962	23,384
rkansas	561	833	691	272	289	24,802
alifornia	45,033	31,667	39,684	18,278	26,755	377,967
olorado	832	654	498	451	381	5,537
onnecticut	1,245	1,435	53	109	1,136	16,762
elaware	329	3,814	3,596	74	256	16,090
strict of Columbia	0	0	0	0	0	(
orida	34,719	27,723	30,089	15,637	19,082	296,940
eorgia	159	59	29	57	102	7,341
awaii	0	0	0	0	0	Ć
laho	0	0	0	0	0	Ċ
inois	7,549	2,849	1,717	3,535	4,014	44,606
diana	191	314	710	104	87	5,141
wa	466	465	338	202	264	4,123
ansas	991	966	2,269	446	545	25,822
entucky	224	191	242	138	86	2,194
ouisiana	25,030	28,377	29,009	9,860	15,171	277,431
laine	0	0	0	0	0	,
aryland	414	232	178	223	191	11,004
assachusetts	3,561	4,368	2,387	1,320	2,241	51,486
lichigan	5,735	4,257	5,195	2,496	3,239	33,288
linnesota	225	779	428	105	119	6,097
lississippi	5,867	5,923	6,705	2,775	3,092	73,081
issouri	215	137	280	80	135	7,464
Iontana	1	91	66	0	1	420
ebraska	58	108	203	21	37	2,656
evada	6,155	2,830	5,601	3,128	3,027	51,776
ew Hampshire	26	2,030	1	26	0	564
ow Jorgov	947	1 760	2.462	419	528	29,528
ew Jersey ew Mexico	3,720	1,769 4,049	3,462 2,744	1,802	1,918	33,376
ew York	,	,	,	,	1,918	,
	26,999	17,459	6,907	10,274 1	,	217,493
orth Carolina	12 0	9	44 0	0	11 0	4,511 1
orth Dakota	U	U	U	U	U	1
hio	209	197	277	96	114	3,485
klahoma	11,665	11,075	15,520	5,205	6,460	128,822
regon	2,573	253	0	1,102	1,471	10,686
ennsylvania	482	598	464	257	225	7,368
hode Island	4,212	4,109	3,197	1,599	2,613	27,162
outh Carolina	44	15	10	11	33	2,731
outh Dakota	69	46	11	6	63	1,730
ennessee	0	0	0	0	0	1,635
exas	103,422	114,869	132,567	49,071	54,351	1,056,582
tah	296	298	289	144	153	4,079
ermont	112	4	1	47	65	36
rginia	1,330	237	1,504	476	853	11,571
ashington	498	8	91	5	492	2,619
est Virginia	50	36	49	29	21	219
isconsin	771	2,942	707	353	418	15,772
/yoming	207	16	12	200	7	95

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

Q1-1-			1:	997		
State	December	November	October	September	August	July
	0.7	000	0.40	4.047	0.070	0.000
labama	87	296	846	1,247	2,373	2,898
laska	3,023	2,676	2,689	2,296	2,439	2,734
rizona	752	400	1,544	5,106	4,809	4,114
rkansas	294	375	2,295	3,377	5,270	7,484
alifornia	27,218	22,372	35,085	56,405	48,127	43,831
colorado	451	385	642	667	716	703
Connecticut	569	1,485	1.873	1.769	2.362	2,474
elaware	700	682	356	667	1,592	2,000
istrict of Columbia	0	0	0	0	0	_,;;;
lorida	21,716	14,283	21,226	26,875	33,664	33,336
oorgia	49	124	308	1,160	2.200	2,592
eorgia	49			,	2,200	,
lawaii		0	0	0	-	0
daho	0	0	0	0	0	0
linois	5,019	3,906	3,796	2,374	3,806	7,977
ndiana	152	234	312	268	530	1,863
owa	207	251	457	234	371	838
ansas	1,993	2,480	2,646	2,113	3,491	6,349
entucky	158	190	201	181	312	525
ouisiana	16,810	14,557	22,089	30,559	34,584	39,937
faine	0	0	0	0	0	0
laryland	209	364	750	623	1,051	3,379
lassachusetts	2,419	3,186	3,140	4,800	5,595	6,031
	3,028	3,135	3,243	2,921	2,851	3,675
lichigan	,	,	,	,	,	,
linnesotalississippi	112 4,576	139 4,062	382 5,433	289 8,119	669 11,937	1,134 14,001
lissouri	311	340	557	749	1,212	2,789
Iontana	21	30	40	27	46	115
lebraska	34	77	354	263	364	878
levada	3,651	1,804	4,368	6,212	7,833	7,257
lew Hampshire	31	24	54	54	70	11
ew Jersey	553	1,341	2,087	1,349	4,239	8,143
lew Mexico	1,999	2,225	3,227	2,835	4,338	4,022
lew York	14,715	12,693	16,569	19,701	29,767	35,237
lorth Carolina	3	25	507	433	747	1,887
lorth Dakota	0	0	0	0	0	1,007
hio	122	246	397	268	304	1,073
						,
Oklahoma	11,407	8,236	10,068	14,026	20,504	20,851
Oregon	1,641	920	2,368	2,367	2,531	306
ennsylvania	365 3 604	212	301	418	923	2,722
thode Island	2,604	2,490	2,505	2,365	2,424	2,003
outh Carolina	35	112	240	212	422	921
outh Dakota	83	90	45	88	228	581
ennessee	0	0	209	0	328	843
exas	69,623	72,461	90,971	126,102	141,943	144,449
tah	178	174	135	912	1,087	824
ermont	4	2	4	2	4	4
irginia	918	381	789	583	1,476	2,536
/ashington	187	220	164	1,191	731	25
Vest Virginia	11	2	17	15	9	23
/isconsin	467	400	743	697	895	
/yoming	467 15	400 15	6	697 5	3	2,168 4
Total	198,522	180,102	246,040	332,925	391,176	427,549

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

01-1-			19	997		
State	June	Мау	April	March	February	January
Nabama	930	482	386	168	156	125
laska	2.579	2,902	2,923	3,593	2.438	3,221
rizona	1,931	2,740	723	588	358	319
rkansas	3,443	575	606	250	214	619
alifornia	26,461	37,116	25,337	24,348	14,189	17,478
olorado	337	393	264	326	259	395
onnecticut	1,400	1,169	1,260	967	1,238	197
elaware	1,096	1,063	1,841	2,279	2,068	1,746
strict of Columbia	0	0	0	, 0	0	, 0
orida	31,395	29,651	28,108	28,965	17,145	10,578
eorgia	440	203	177	30	18	42
awaii	0	0	0	0	0	0
aho	0	0	0	0	0	0
inois	4,586	2,897	4,921	2,474	1,661	1,188
diana	796	232	221	220	151	162
wa	393	270	254	383	218	247
ansas	3,142	1,237	847	558	413	553
entucky	170	21	117	130	80	111
puisiana	29,959	25,574	19,124	15,862	13,616	14,761
aine	0	0	0	0	0	0
aryland	1,856	725	1,478	336	47	185
assachusetts	6,223	3,821	6,630	5,273	2,793	1,575
ichigan	2,753	2,748	2,263	2,413	2,356	1,901
innesota	684	594	619	695	123	656
ssissippi	8,382	4,685	3,033	2,930	2,716	3,207
issouri	1,022	95	173	77	52	85
ontana	8	7	15	18	27	64
ebraska	218	108	172	81	77	31
evada	5,269	5,215	3,517	3,820	1,362	1,468
ew Hampshire	319	0	0	0	0	0
ew Jersey	4,610	1,478	1,868	2,091	1,023	746
ew Mexico	2,922	2,443	2,547	2,768	1,990	2,059
ew York	28,198	16,938	11,475	14,741	12,486	4,972
orth Carolina	811	61	26	1	9	0
orth Dakota	0	0	0	0	0	0
nio	596	106	107	71	71	125
klahoma	12,246	6,710	7,023	6,677	4,843	6,231
regon	126	3	0	171	0	253
ennsylvania	886	294	326	324	316	281
hode Island	2,184	2,445	1,854	2,179	2,021	2,088
outh Carolina	621	67	72	12	4	11
outh Dakota	360	85	85	39	19	26
ennessee	255	0	0	0	0	0
exas	103,279	73,212	59,300	60,371	54,877	59,992
ah	25	147	143	155	137	161
ermont	3	3	3	3	2	2
rginia	1,350	670	1,497	1,133	47	190
ashington	1	86	5	0	2	6
est Virginia	40	33	9	23	23	12
isconsin	1,686	1,851	1,768	2,154	1,773	1,169
yoming	13	6	6	6	7	9
otal	296,004	231,162	193,124	189,704	143,428	139,250

Table 18. Natural Gas Deliveries to Electric Utility^a Consumers, by State, 1996-1998

State			199	96		
State	Total	December	November	October	September	August
Nabama	6,146	291	480	384	593	708
laska	31,767	3,078	2,683	2,637	2,449	2,595
	,	443	2,003	2,037	2,449	4,797
rizona	19,248		296 297	,	, -	,
rkansasalifornia	33,988 318,035	1,226 17,182	22,900	201 32,454	4,215 35,564	5,421 53,941
alasa da	E E44	454	040	500	70.4	700
olorado	5,511	454	319	506	724	798
onnecticut	10,456	131	912	1,643	2,168	2,269
elaware	23,370	1,048	2,129	2,330	2,562	2,416
strict of Columbiaorida	0 283,557	0 13,124	0 17,908	0 28,677	0 33,595	0 33,376
		,				
eorgiaawaii	4,674 0	43 0	80 0	9	243 0	588 0
aho	0	0	0	0	0	0
inois	25,863	550	1,859	1.046	2,309	4,289
diana	4,330	236	256	144	197	570
wa.	3,491	236	232	211	277	298
wa	,	236 672	232 578	808	1,959	
ansas	22,607				,	4,148
entucky ouisiana	1,836	82 12,921	104 14,958	65 18,877	83 21,484	281
laine	252,139 0	12,921	14,958	0	21,484 0	32,455 0
	0.455	044	000	405	4 504	4.000
aryland	8,455	211	263	485	1,521	1,920
assachusetts	45,037	1,562	3,081	8,648	9,009	7,190
ichigan	32,559	2,888	3,151	2,705	3,320	2,746
innesotaississippi	5,301 83,251	419 3,671	403 6,561	469 5,392	602 9,812	624 12,074
		,				
lissouri	5,223	69	238	193	287	896
lontana	470	72	85	42	35	23
ebraska	2,351	82	94	122	161	213
evada	46,766	2,311	2,458	4,266	4,900	6,394
ew Hampshire	3	0	1	0	0	0
ew Jersey	25,825	445	1,038	1,481	3,575	4,064
ew Mexico	29,969	2,244	2,423	2,787	2,492	3,456
ew York	142,688	5,108	10,715	14,459	21,421	24,086
orth Carolina	2,381	1	1	112	75	196
orth Dakota	3	0	0	0	1	1
hio	2,867	106	259	56	257	593
klahoma	136,436	6,107	8,068	9,395	13,201	19,557
regon	14,015	334	1,289	3,049	3,801	3,202
ennsylvania	7,239	282	654	650	1,150	1,778
hode Island	25,071	2,167	2,449	2,424	2,236	2,417
outh Carolina	1,206	20	16	23	350	64
outh Dakota	725	35	80	5	76	178
ennessee	572	0	1	0	79	240
exas	1,039,155	51,332	59,062	75,410	90,570	119,967
ah	3,428	142	130	133	554	870
ermont	24	3	3	3	3	2
irginia	10,275	333	193	473	1,677	1,578
/ashington	6,590	21	358	801	2,251	2,558
/est Virginia	205	43	3	1	26	15
/isconsin	7,303	702	803	572	739	1,198
/yoming	87	6	6	7	8	9
Гоtal	2,732,496	132,434	169,879	226,394	284,758	367,059

^a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.

Notes: Geographic coverage is the 50 States and the District of Columbia. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-759, "Monthly Power Plant Report."

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998 (Million Cubic Feet)

State	YTD	YTD	YTD	1998		1997	
State	1998	1997	1996	February	January	Total	
labama	62,892	60,829	66,366	29,830	33,062	298,692	
laska	24,414	28,457	27,098	9,985	14,428	145,913	
izona	26,894	23,116	22,532	12,168	14,726	111,857	
kansas	46,874	52,664	54,267	23,129	23,745	243,839	
alifornia	394,330	339,992	327,546	190,777	203,553	1,849,819	
olorado	NA	68,936	71,434	32.286	NA	271,769	
onnecticut	30,941	31,485	31,693	14,383	16,558	132,962	
elaware	7,979	11,480	11,748	3,776	4,203	R46,397	
strict of Columbia	9,698	10.014	10,475	4,747	4,951	32.732	
orida	73,182	63,993	67,985	33,793	39,389	493,504	
	00.004	05 500	00.007	20.540	40.540	250.005	
eorgiaawaii	82,091 484	85,568 476	90,067 492	39,542 232	42,548 252	350,085	
						2,692	
aho	15,579	14,674	14,793	7,284	8,295	61,769	
nois	254,028 NA	303,948	318,071	107,855	146,173 NA	1,064,270	
diana	NA	142,790	146,716	57,078	NA	556,723	
wa	59,024	67,630	68,637	25,941	33,082	247,128	
nsas	57,144	64,102	69,454	26,029	31,115	262,063	
entucky	47,468	55,233	57,533	21,257	26,211	204,648	
puisiana	207,893	216,065	226,503	95,973	R111,920	1,338,715	
aine	1,553	1,421	1,436	777	777	6,247	
aryland	61 594	48,432	51 242	29.426	33,158	202,721	
aryland	61,584	,	51,342	28,426	,		
assachusetts	82,605	86,456	82,802	39,778	42,828	R379,218	
chigan	226,291	255,825	269,319	106,517	119,774	936,410	
nnesotassissippi	82,457 NA	95,012 36,250	95,664 40.485	36,306 17,463	46,151 NA	334,344 199,656	
		30,200	.0, .00	,		.00,000	
issouri	NA	91,006	91,277	34,874	NA	275,142	
ontana	12,793	15,078	14,781	5,313	7,480	53,469	
ebraska	30,124	34,449	34,363	13,802	16,322	123,199	
evada	24,847	21,602	22,704	11,832	13,015	129,853	
ew Hampshire	5,373	5,171	5,325	2,585	2,788	21,006	
ew Jersey	136,607	143,225	161,181	66,099	70,507	592,136	
ew Mexico	27,499	29,815	26,201	11,205	16,294	120,759	
ew York	235,937	288,418	NA NA	110,475	R125,462	R1,284,368	
	53,967	51,088	52,144	25,906	28,061	212,766	
orth Carolinaorth Dakota	8,616	10,443	8,953	3,944	4,673	34,293	
	040.075	040.554	004.445	00.770	440.500	077.040	
nio	213,375	246,554	264,445	99,776	113,599	877,213	
dahoma	85,546	90,292	96,098	40,846	44,699	450,167	
egon	38,973	34,043	31,142	17,736	21,237	158,903	
nnsylvania	150,893	176,592	193,287	75,456	75,437	R652,300	
ode Island	17,301	17,452	16,285	7,949	9,352	82,097	
outh Carolina	35,162	31,800	31,030	17,097	18,065	164,034	
outh Dakota	7,909	10,190	9,324	3,464	4,445	32,342	
nnessee	NA NA	67,940	70,018	28,238	NA NA	266,475	
xas	491,734	587,279	612,284	226,771	264,962	R3,506,486	
ah	34,479	35,572	34,193	16,652	17,827	137,598	
rmont	2 207	2 127	2.050	1 005	1 202	9 OFF	
ermont	2,287	2,137	2,059	1,085	1,202	8,055	
rginia	55,205 NA	58,363	61,600	27,386	27,819 NA	231,361	
ashington		52,302	52,260	32,753		257,133	
est Virginia	26,620	27,412	30,412	12,991	13,629	113,410	
sconsin	90,645	109,342	110,418	39,114	51,531	397,071	
yoming	ŇA	15,875	15,459	8,825	ŇA	70,828	

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

01-1-	1997							
State	December	November	October	September	August	July		
Neb en e	00.407	04.700	04.550	04.000	00 505	04.005		
labama	30,497	24,708	21,550	21,022	23,525	24,635		
laska	14,808	12,235	12,792	8,608	10,340	10,332		
rizona	11,607	7,012	6,690	10,654	9,864	9,318		
rkansas	23,868	19,870	17,463	16,495	19,314	21,430		
alifornia	186,761	145,591	139,946	162,462	155,621	154,451		
olorado	32,610	22,970	16,449	14,115	15,213	16,384		
onnecticut	15,668	11,727	8,439	6,691	7,568	7,758		
elaware	^R 4,350	3,196	2,090	2,190	2,970	3,505		
istrict of Columbia	4,605	2,768	1,452	1,245	1,226	1,202		
orida	40,227	30,734	36,752	41,672	48,586	48,863		
eorgia	40,563	35,202	23,556	20,016	21,344	21,371		
awaii	230	293	209	206	201	218		
laho	7,188	5,520	4,450	3,482	3,021	3,441		
inois	132,686	111,168	70,463	42,621	40,557	46,870		
		,	,		,	,		
diana	68,314	53,950	36,918	27,578	26,544	26,996		
wa	30,098	24,723	17,401	11,705	11,634	11,505		
ansas	30,151	24,284	15,403	13,149	15,790	23,101		
entucky	26,970	21,324	14,326	9,949	9,434	9,646		
ouisiana	109,377	101,574	109,871	116,287	121,396	123,951		
laine	733	692	486	329	294	271		
aryland	31,215	17,537	11,517	9,389	10,095	12,430		
lassachusetts	38,422	30,307	23,079	20,467	22,754	23,347		
lichigan	111,072	88,305	55,632	41,554	39,709	26,729		
linnesota	39.808	36,021	21,273	12,898	13,518	13,116		
lississippi	18,874	15,871	14,057	15,017	19,987	22,079		
lianauri	35,563	24,674	12,066	9,892	10,007	12,149		
lissouri	,	,	,		,	,		
lontana	7,288	5,208	3,676	2,248	2,129	1,983		
ebraska	13,794	9,888	6,785	5,118	6,824	8,142		
evada	12,615	8,017	9,346	10,860	12,430	11,759		
ew Hampshire	2,442	1,785	1,291	918	893	810		
ew Jersey	68,929	50,492	34,828	28,939	32,427	35,789		
ew Mexico	16,263	10,735	7,477	6,667	8,136	7,917		
ew York	R128,789	R102,978	^R 70,030	^R 74,703	^R 86,863	^R 97,493		
orth Carolina	25,256	18,008	13,573	12,137	12,973	13,611		
orth Dakota	3,774	3,211	1,875	1,327	1,314	1,006		
hio	108,921	85,201	56,541	37,252	34,992	35,483		
Dklahoma	44,734	33,511	29,633	33,919	41,269	40,796		
	,	,	,	,	,	,		
Oregon	19,412	14,439	13,513	12,168	12,426	9,439		
ennsylvania hode Island	79,331 8,705	62,304 7,313	40,177 5,310	28,814 4,739	26,622 4,757	^R 29,436 5,072		
	,				,			
outh Carolina	16,684	12,984	10,286	11,465	12,538	19,535		
outh Dakota	3,736	3,059	1,587	1,153	1,210	1,397		
ennessee	31,651	20,204	16,202	16,619	16,625	14,883		
exas	R300,576	R272,820	278,581	308,747	336,135	333,317		
tah	20,208	13,507	10,682	6,491	6,865	6,734		
ermont	988	724	529	345	293	285		
irginia	28,898	19,787	13,199	11,565	14,326	14,545		
/ashington	35,443	32,759	17,889	17,937	15,634	13,007		
est Virginia	13,499	11,208	7,101	6,025	6,001	5,547		
/isconsin	47,427	41,410	26,493	16,641	15,927	16,856		
/yoming	6,350	6,583	5,250	3,538	4,271	4,475		

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

State	1997								
State	June	Мау	April	March	February	January			
labama	20,567	22,424	23,941	24,993	29,657	31,172			
laska	10,193	10,855	12,458	14,835	12,702	15,755			
rizona	7,231	8,784	7,534	10,047	10,920	12,196			
rkansas	17,499	16,456	18,079	20,701	24,893	27,771			
alifornia	125,478	142,936	143,180	153,401	162,740	177,251			
olorado	15,295	19,364	22,145	28,288	32,911	36,025			
onnecticut	7,207	8,957	13,002	14,461	16,153	15,331			
elaware	2,852	3,347	4,765	5,651	5,917	5,563			
istrict of Columbia	1,513	2,317	2,158	4,232	4,971	5,042			
orida	46,706	46,012	44,503	45,455	34,602	29,392			
oorgia	19,045	24,082	29,290	30,048	40,351	45,217			
eorgiaawaii	211	24,062	29,290	226	237	239			
awaiilaho	3,556	4,298	5.685	6.454	7,128	7,546			
	,	4,296 64,781	89,460	-, -	132,731	171,217			
inoisdiana	44,620 29,386	39,518	89,460 46,657	117,095 58,071	64,849	77,941			
uiaiia	23,300	39,310	40,007	50,071	04,049	11,941			
wa	11,581	15,100	20,283	25,468	28,940	38,690			
ansas	15,156	16,520	19,773	24,635	28,706	35,397			
entucky	9,592	12,569	15,682	19,924	23,491	31,742			
ouisiana	115,741	113,669	107,263	103,522	104,512	111,553			
aine	323	434	562	702	643	778			
aryland	11,965	12,410	17,306	20,426	23,169	25,264			
assachusetts	28,231	25,392	38,213	42.550	44,676	R41,780			
chigan	47,754	70,254	87,580	111,995	120,468	135,357			
•	,			,	,				
nnesotassissippi	14,868 16,531	20,089 13,189	28,753 13,005	38,988 14,795	43,573 17,431	51,438 18,819			
	,	45.400	,		, 45 700	45.007			
issouri	11,954	15,126	24,138	28,568	45,769	45,237			
ontana	2,266	3,230	4,531	5,832	6,646	8,432			
ebraska	5,655	8,180	10,768	13,597	15,840	18,609			
evada	10,179	11,093	9,855	12,098	10,278	11,324			
ew Hampshire	1,302	1,843	2,115	2,437	2,626	2,545			
ew Jersey	33,917	39,326	50,239	74,024	65,637	77,588			
ew Mexico	6,160	8,284	7,848	11,457	13,677	16,137			
ew York	R93,399	R94,944	R111,890	R134,862	R148,697	R139,721			
orth Carolina	13,375	15,140	17,647	19.958	25,811	25,277			
orth Dakota	1,384	2,260	3,140	4,558	5,115	5,328			
nio.	39,117	59,664	75 370	98,118	112 272	122 121			
nio	,	,	75,370		113,373	133,181			
klahoma	33,405	30,523	34,088	37,995	43,503	46,790			
egon	7,779	9,529	11,832	14,323	15,519	18,524			
nnsylvania	30,381	44,874	60,019	73,750	84,428	92,163			
node Island	5,713	6,909	7,506	8,621	8,649	8,803			
outh Carolina	10,987	11,697	12,486	13,572	15,741	16,059			
outh Dakota	1,503	2,004	2,900	3,604	4,506	5,684			
nnessee	15,757	18,028	21,621	26,945	34,363	33,577			
xas		263,252	251,146	R285,767	270,083	317,196			
ah	5,981	6,869	11,451	13,240	16,675	18,897			
rmont	354	569	782	1,048	1,059	1,078			
rginia		16,730	20,370	21,630	27,864	30,499			
ashington	,	18,287	16,880	23,019	24,824	27,478			
						,			
est Virginia		8,410	12,384	9,734	13,142	14,271			
sconsin		26,124	33,702	46,172	48,115	61,227			
yoming	4,900	6,272	6,374	6,938	6,883	8,992			
otal	R1,296,427	R1,443,133	R1,632,573	R1,928,832	R2,085,193	R2,333,094			

Table 19. Natural Gas Deliveries to All Consumers, by State, 1996-1998

Charles			19	96		
State	Total	December	November	October	September	August
abama		27,094	22,883	21,529	19,832	19,033
aska	,	15,528	13,584	12,633	10,943	11,496
izona	,	10,289	7,516	7,435	6,972	9,510
kansas		23,939	18,699	14,990	17,185	18,927
alifornia	1,721,217	166,541	147,022	138,842	136,901	155,943
lorado	269,006	33,157	22,968	13,807	11,994	13,252
nnecticut	126,488	13,888	10,932	8,990	7,570	7,498
laware	54,020	4,253	4,459	4,236	4,104	3,910
strict of Columbia	33,644	4,731	2,448	1,382	1,175	1,130
orida	478,471	29,697	33,713	43,317	48,450	47,884
orgia	374,882	42,005	36,037	24,688	21,145	22,041
waii		220	200	209	213	206
aho		6,736	5,424	4,267	3,588	3,040
nois		149,698	121,461	65,883	42,305	39,723
liana		64,588	52,504	35,148	26,545	25,587
	551,000	0 1,000	02,007	00,170	20,040	20,007
va	,	33,840	27,088	15,392	11,602	11,684
ınsas	275,508	33,619	24,789	13,341	13,359	19,111
entucky	207,529	25,797	22,270	12,879	9,256	8,916
uisiana	1,382,966	108,393	ŇA	ŇA	112,202	123,596
aine	5,722	601	619	478	291	274
aryland	189,901	22,026	16,766	10,847	9,705	10,184
ssachusetts		36,513	31,385	28,511	24,573	22,967
chigan		114,489	91,489	55,831	42,722	39,157
nnesota		47,484	36,773	21,889	14,156	12,763
ssissippi		16,183	16,579	14,771	18,125	20,243
innouri	286,814	27 222	24,218	12,436	9,811	11 500
ssouriontana	·	37,323 7,466	5,870	3,712	2,549	11,582 2,257
	,	,		,	,	6,101
ebraska	,	16,087	10,994	8,322	5,903	
evadaew Hampshire	,	10,973 2,155	9,050 1,895	8,977 1,144	9,476 761	10,921 742
	,	,		,		
ew Jersey		76,491	50,284	33,981	29,492	26,043
ew Mexico	113,059	13,633	10,437	7,281	6,165	7,418
ew York	1,121,742	NA	NA	NA	NA	NA
orth Carolina	205,783	23,182	17,666	14,099	11,058	10,992
orth Dakota	32,670	4,544	3,497	1,900	1,219	936
iio	915,035	111,994	87,340	54,686	34,327	34,726
lahoma	460,373	42,614	33,004	30,251	33,379	39,824
egon		17,626	15,293	14,369	13,598	12,667
ennsylvania		80,392	65,415	41,287	29,057	29,652
ode Island		8,359	7,830	6,999	6,206	6,308
outh Carolina	146,434	15,449	12,527	10,815	9.849	9,602
outh Dakota		4,805	3,425	1,677	1,171	1,162
nnessee	,	30,041	23,454	15,496	13,863	13,130
xas		284,720	261,074	NA	292,962	310,564
ah	* *	16,258	12,727	10,013	7,809	6,534
AII	123,001	10,200	12,121	10,010	1,000	0,004
rmont		844	698	440	300	273
rginia	230,140	28,550	20,832	12,795	10,655	12,196
ashington	231,767	26,206	21,913	17,092	15,904	15,398
est Virginia		13,051	10,306	7,541	6,489	5,743
sconsin		50,811	43,208	25,032	16,019	15,491
yoming		8,146	7,382	6,411	4,324	4,322
otal	20,005,508	2,086,126	1,731,770	1,377,692	1,252,627	1,312,337

R = Revised Data.
NA = Not Available.

Notes: Geographic coverage is the 50 States and the District of Columbia. Gas volumes delivered for use as vehicle fuel are included in the annual total for commercial deliveries but not in the monthly components. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-759, "Monthly Power Plant Report."

Table 20. Average City Gate Price, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

	YTD	YTD	YTD	19	98		1997	
State	1998	1997	1996	February	January	Total	December	Novembe
labama	3.06	4.23	3.24	2.93	3.18	3.65	2.60	3.97
laska	1.74	1.85	1.58	1.72	1.75	1.81	1.82	1.82
rizona	2.37	3.60	2.20	2.28	2.46	3.15	2.53	3.48
rkansas	2.98	3.81	2.52	2.85	3.09	3.23	3.19	3.44
California	2.25	3.71	2.27	2.12	2.35	2.98	2.65	3.30
Colorado	NA	NA	2.12	2.62	NA	NA	2.99	NA
Connecticut	5.23	5.91	5.46	5.24	5.23	NA	4.73	3.87
Delaware	2.85	5.97	3.34	3.02	2.71	3.69	2.40	5.73
District of Columbia	_	_	_	_		_		_
Florida	3.53	4.59	3.73	3.20	3.81	3.97	3.85	4.45
Na araia	2.24	4.50	2.55	2.40	2.42	2.00	2.67	4.04
Seorgia	3.31	4.53	3.55	3.18	3.43	3.99 NA	3.67	4.04 NA
lawaii	6.08	6.93	5.55	5.75	6.40		6.23	
daho	1.92	2.26	2.03	1.94	1.89	2.12	1.79	2.07
llinois	2.81	3.60	3.14	2.85	2.78	3.28	2.92	3.72
ndiana	NA	3.71	3.21	2.48	NA	NA	NA	3.21
owa	3.63	3.84	2.80	3.33	3.80	4.05	4.44	4.84
Kansas	3.14	4.05	2.66	2.73	3.56	NA	NA	4.29
Kentucky	3.16	3.88	3.13	3.09	3.22	NA	4.07	4.28
ouisiana	2.74	3.70	3.42	2.65	2.81	NA	2.85	3.73
Maine	3.25	4.33	3.92	3.25	3.25	3.84	3.10	2.72
Maryland	3.26	3.98	3.55	3.43	2.96	4.01	3.37	4.22
Massachusetts	3.19	4.18	3.33	2.89	3.40	3.95	4.03	4.14
/lichigan	2.92	3.68	3.03	2.89	2.94	2.99	3.19	3.51
finnesota	3.10	4.05	2.85	2.90	3.27	3.67	4.06	4.52
Mississippi	NA	3.93	3.30	2.99	NA	NA	3.31	3.83
Missouri	NA	3.82	2.54	2.99	NA	NA	3.13	3.91
Montana	2.56	3.64	2.89	2.41	2.71	3.16	2.51	3.15
lebraska	3.62	4.12	2.56	2.70	4.71	4.24	5.31	6.30
levada	3.02	3.81	2.49	3.00	3.03	3.39	2.84	3.71
New Hampshire	3.75	4.71	4.07	3.74	3.77	NA NA	3.72	4.02
laur laman	2.05	4.40	2.75	2.20	4.07	4 4 7	2.77	4.40
New Jersey	3.85	4.49	3.75	3.38	4.37	4.17	3.77	4.49
New Mexico	2.13	3.22	1.60	2.02	2.24	2.53	2.31	2.85
lew York	NA	NA	3.48	3.28	NA	NA	NA	NA
Iorth Carolina	3.57	4.35	3.65	3.47	3.65	3.97	3.72	4.09
North Dakota	2.90	3.96	2.88	2.85	2.93	3.38	3.01	4.01
Ohio	4.56	5.32	3.80	4.27	4.82	5.16	4.35	4.66
Oklahoma	2.74	3.61	2.54	2.61	2.86	3.12	3.32	3.19
Oregon	2.43	2.68	2.01	2.31	2.53	2.58	2.42	2.73
Pennsylvania	3.66	4.18	3.18	3.64	3.68	4.06	3.71	4.32
Rhode Island	3.63	4.59	3.59	3.35	3.93	4.49	4.02	4.46
Couth Carolina	3.22	4.10	3.90	3.05	3.37	3.81	3.72	4.13
South Carolina								
South Dakota	3.39 NA	4.04	2.65	3.66	3.22 NA	3.66 NA	3.46	3.68
ennessee		3.94	4.53	3.84			3.63	2.02
exas	3.10	4.48	3.17	2.87	3.26	3.67	3.97	3.86
Jtah	3.45	2.70	2.19	3.68	3.25	2.79	3.46	3.07
ermont	2.62	1.81	2.88	2.66	2.59	2.33	2.64	2.77
/irginia	3.81 NA	4.54	3.64	3.63	3.97 NA	4.13	3.65	4.15
Vashington	NA	3.07	2.04	2.43	NA	NA	NA	NA
Vest Virginia	3.23	3.58	3.05	3.15	3.34	3.16	2.99	3.07
Visconsin		3.88	2.83	2.99		NA NA	4.93	3.75
Vyoming	3.12 NA	3.92	2.03	3.31	3.21 NA	3.13	3.20	3.61
	0.10				0.55			
Total	3.19	4.05	3.15	3.09	3.28	3.61	3.48	3.86

Table 20. Average City Gate Price, by State, 1996-1998

State				19	97			
State	October	September	August	July	June	Мау	April	March
.labama	4.17	3.83	3.88	4.10	3.86	3.54	3.16	3.20
laska	1.78	1.79	1.73	1.74	1.70	1.78	1.81	1.84
		3.74		2.98		3.18	2.61	2.22
rizona	3.80		3.16		3.32			
rkansasalifornia	3.61 3.18	2.87 2.74	3.28 2.79	2.78 3.72	2.77 2.67	2.59 2.55	2.48 2.30	2.46 2.25
amorria	5.10	2.74	2.13	5.72	2.07	2.55	2.50	2.20
olorado	NA	NA	NA	NA	NA	NA	2.30	NA
onnecticut	NA	5.29	5.33	4.55	4.76	4.81	4.94	4.82
elaware	5.23	1.04	4.07	3.51	3.44	3.20	3.00	4.16
istrict of Columbia	_	_	_	_	_		_	_
lorida	4.64	3.82	3.31	3.41	3.50	3.09	3.62	4.04
eorgia	4.03	5.29	3.90	3.96	4.37	3.20	3.08	3.31
awaii	6.09	6.11	6.35	6.59	5.46	6.47	7.21	6.50
laho	2.01	2.17	2.50	2.16	2.83	2.98	2.08	1.85
inois	4.07	3.78	3.37	2.81	3.11	3.06	2.48	2.43
	4.07 NA	3.15	2.87	2.54	2.35	2.32	2.46	2.43
diana		3.15	2.07	2.54	2.35	2.32	2.07	2.31
wa	4.99	5.39	5.86	6.62	4.74	3.49	2.83	3.05
ansas	3.61	3.47	3.11	2.88	3.02	2.85	2.38	2.67
entucky	NA	3.57	3.62	3.68	3.69	3.30	3.62	3.40
ouisiana	NA	3.01	2.56	2.58	2.63	2.40	2.36	2.44
laine	4.11	3.79	4.43	4.34	4.53	4.69	3.43	4.26
laryland	4.69	5.77	6.05	5.81	4.34	4.15	3.15	3.32
lassachusetts	4.52	4.58	4.91	5.29	5.61	2.86	3.26	2.97
lichigan	3.12	2.87	2.63	2.54	2.69	2.60	2.56	2.66
linnesota	4.26	4.02	2.97	3.92	3.49	2.64	2.41	2.70
lississippi	NA	NA	NA	NA	2.95	2.43	2.89	2.82
lissouri	NA	5.08	4.79	4.61	5.31	3.95	3.11	2.78
Iontana	4.47	3.76	3.96	3.63	3.91	2.28	3.09	2.70
lebraska	5.76	7.03	5.51	4.96	4.09	3.11	2.28	3.02
	3.46	4.12	3.99	3.87		2.72	2.81	2.96
evada	3.95	4.12 NA	3.99 4.45	4.28	3.64 4.34	3.66	3.15	3.99
ew Hampshire	3.93		4.45	4.20	4.34	3.00	3.13	3.98
ew Jersey	4.74	4.22	4.41	4.29	4.21	3.86	3.15	3.99
ew Mexico	2.59	2.62	2.18	2.13	2.13	2.04	1.91	1.38
ew York	NA	3.42	NA	NA	NA	NA	NA	NA
orth Carolina	3.95	4.13	3.96	3.90	3.84	3.83	3.40	3.51
orth Dakota	3.73	3.53	3.36	3.14	3.17	2.95	2.50	2.43
	5.00	4.04		7.40	0.47	5.00		= 0.4
hio	5.09	4.91	5.51	7.16	6.17	5.96	5.79	5.01
klahoma	3.04	2.58	2.66	3.23	2.66	2.22	2.22	3.09
regon	2.48	3.12	4.01	3.45	3.00	3.02	1.95	1.92
ennsylvania	4.60	4.56	4.36	4.03	4.90	4.30	3.48	3.48
hode Island	4.53	5.71	6.64	7.53	6.42	4.81	3.46	3.16
outh Carolina	4.15	4.03	3.86	3.74	3.78	3.54	3.25	2.95
outh Dakota	3.53	4.03	4.26	4.40	4.58	3.75	3.02	2.78
ennessee	4.33	2.78	2.51	2.71	NA	2.96	2.51	NA NA
exas	3.58	3.21	3.11	3.23	3.01	2.50	2.38	3.01
tah	2.64	2.81	3.02	2.83	2.35	1.93	2.15	2.69
	2.04	2.01	0.02	2.00	2.00	1.33	2.10	2.03
ermont	2.34	2.29	2.33	2.41	2.58	2.77	2.39	2.26
irginia	4.83	4.69	4.47	3.94	3.77	5.12	3.28	3.49
/ashington	NA	NA	NA	NA	2.28	2.53	2.70	1.89
/est Virginia	3.66	3.53	3.89	1.85	3.90	3.02	2.88	2.17
/isconsin	3.91	4.52	4.75	3.68	NA	3.39	NA	2.89
/yoming	3.02	3.35	2.90	2.94	2.85	1.64	2.48	3.19
			0 :-	0.51		0.15	2.94	
Total	3.93	3.60	3.45	3.61	3.44	3.16		3.06

Table 20. Average City Gate Price, by State, 1996-1998

• .	19	97			19	96		
State	February	January	Total	December	November	October	September	Augus
labama	4.02	4.44	3.48	4.07	3.61	3.44	3.62	4.11
laska	1.80	1.88	1.58	1.59	1.60	1.55	1.57	1.54
rizona	2.85	4.21	2.78	4.14	3.32	2.66	3.02	3.58
rkansas	3.16	4.18	2.76	3.68	3.04	2.46	2.29	2.59
California	3.21	4.14	2.59	3.81	3.00	2.37	2.34	2.77
Colorado	NA	NA	2.70	4.91	3.13	2.58	2.49	2.29
Connecticut	6.00	5.82	5.11	6.15	4.60	4.46	4.65	4.42
elaware	5.09	6.92	3.68	4.96	3.66	2.94	3.03	3.80
District of Columbia	-	-	-	-	-		- -	
lorida	4.56	4.61	3.73	4.80	3.90	3.28	3.03	3.54
Coordia	115	4.90	2 77	4.65	2 71	2 17	2 21	4.00
Seorgia	4.15	4.80	3.77	4.65	3.71	3.17	3.31	4.00
ławaii	7.73	6.16	6.05	6.67	6.30	6.33	6.00	6.05
daho	2.13	2.37	2.24	2.30	2.10	2.11	2.72	2.48
llinois	3.30	3.79	3.27	4.05	3.25	2.65	2.80	3.25
ndiana	3.20	4.08	3.09	3.83	3.16	2.49	2.04	2.70
owa	3.66	3.98	3.47	4.09	3.46	3.12	4.28	7.96
Cansas	3.67	4.37	3.05	3.77	3.38	2.91	2.63	2.88
Centucky	3.47	4.17	3.41	4.40	3.59	2.94	3.16	3.04
ouisiana	3.49	3.84	3.13	4.30	3.24	2.31	2.26	2.69
Maine	3.52	4.96	4.30	4.34	3.64	3.93	3.91	4.35
Manuland	2.75	4.14	4.02	4 GE	2.75	2.65	F 61	E 0E
Maryland	3.75	4.14	4.02	4.65	3.75	3.65	5.61	5.85
lassachusetts	4.12	4.30	3.98	4.82	3.72	3.60	5.36	5.68
lichigan	3.28	3.98	2.90	3.73	3.07	2.49	2.31	2.98
linnesota	3.48	4.51	3.07	3.78	3.19	2.65	2.91	3.32
Mississippi	3.48	4.25	3.27	4.34	3.14	2.67	2.59	2.89
Missouri	3.50	4.05	3.25	4.03	3.20	3.47	4.14	5.13
Montana	3.50	3.73	3.03	3.46	3.04	3.08	3.24	4.13
lebraska	3.75	4.42	3.07	3.99	3.11	2.93	2.85	4.83
levada	3.37	4.13	3.10	3.97	3.46	2.96	3.26	3.83
lew Hampshire	4.42	4.93	4.20	5.01	4.15	3.19	3.86	4.47
low Jorgov	4.20	4.70	2.04	4.92	2 92	2.25	3.60	2 71
lew Jersey	4.20	4.70	3.84	4.82	3.83	3.25	3.69	3.71
lew Mexico	2.39 NA	3.85 NA	1.99	3.60	2.68	1.88	1.66	2.07
lew York			3.36	4.38	3.03	2.86	2.61	2.91
lorth Carolina	4.34	4.36	3.74	4.26	3.48	3.22	3.68	3.94
North Dakota	3.59	4.22	2.94	3.80	3.10	2.49	2.54	3.44
Ohio	5.41	5.24	4.37	4.79	4.95	5.06	6.12	5.58
klahoma	3.68	3.52	2.56	2.84	2.44	1.99	2.53	2.65
Oregon	2.35	2.95	2.42	2.95	2.41	2.24	2.98	3.15
ennsylvania	4.12	4.22	3.77	4.24	3.92	3.85	4.39	4.86
Rhode Island	4.26	4.85	4.41	5.20	4.04	3.91	5.94	6.51
outh Carolina	3.97	4.20	3.90	4.60	3.76	3.26	3.53	3.87
outh Dakota	3.95	4.10	3.19	3.98	3.37	2.87	3.40	6.37
ennessee	3.73	4.10	4.04	6.64	3.71	2.92	3.40	3.70
exas	4.16	4.70	3.22	4.21	3.49	2.73	2.87	2.97
tah	2.76	2.65	2.25	2.39	3.32	1.66	2.22	2.08
ermont	2.16	1.57	2.74	2.67	2.49	2.18	2.36	2.69
/irginia	3.96	5.04	3.89	5.13	3.69	3.34	3.40	4.42
Vashington	2.62	3.45	2.44	3.14	2.50	1.94	2.71	3.21
Vest Virginia	3.54	3.61	3.36	3.53	3.25	3.57	3.74	4.43
Visconsin	3.54	4.13	3.43	4.12	3.61	3.17	4.11	4.98
Vyoming	3.61	4.22	2.36	2.55	2.18	1.91	2.84	2.92
Total	3.78	4.27	3.34	4.18	3.46	2.94	3.05	3.46

NA = Not Available.

⁼ Not Applicable.

Notes: Geographic coverage is the 50 States and the District of Columbia. Prices in this table represent the average price of natural gas by State at the point where the gas transferred from a pipeline to a local distribution company within the State. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

	YTD	YTD	YTD	19	98		1997	
State	1998	1997	1996	February	January	Total	December	Novembe
Alabama	7.26	7.61	6.17	7.10	7.41	8.39	7.32	7.99
Alaska	3.55	3.65	3.31	2.18	3.56	3.78	3.62	3.69
Arizona	7.30	6.71	6.71	7.40	7.23	7.80	7.59	9.17
Arkansas	7.80	6.29	5.25	6.50	9.42	6.64	6.23	6.40
California	6.90	6.27	6.41	6.49	7.28	6.82	7.20	7.49
Colorado	NA	NA	4.08	3.70	NA	NA	3.87	NA
Connecticut	10.35	10.69	9.93	10.33	10.36	NA	9.18	10.42
Delaware	8.07	7.65	6.33	8.08	8.07	8.42	8.11	8.76
District of Columbia	8.73	9.59	8.19	8.44	9.01	9.47	9.45	11.01
Florida	11.56	10.63	9.19	11.61	11.51	12.71	12.58	13.89
Coordia	6.00	6.02	E 10	6 15	6.40	7.45	6 11	E 0E
Georgia	6.28 20.22	6.93 23.31	5.48	6.15	6.40 19.99	7.45 21.71	6.11 20.40	5.95 20.84
ławaii			18.43	20.46		∠1.71 NA		
daho	5.07	4.80	4.99	5.14	5.01		4.98	5.28
llinois	4.89 NA	6.29	4.39	4.91	4.88 NA	5.95	5.39 NA	5.65
ndiana	NA	5.93	4.74	7.04	NA	NA	NA	5.83
owa	5.26	5.75	4.61	4.97	5.49	6.27	6.09	6.52
Cansas	5.81	6.44	5.01	5.80	5.82	6.47	5.96	6.55
Centucky	5.48	5.93	4.75	5.47	5.48	NA	6.49	6.19
ouisiana	5.88	7.10	5.80	5.60	6.10	NA	6.38	7.96
Maine	7.90	8.35	7.38	7.90	7.90	8.47	8.36	8.21
Maryland	7.37	7.66	6.79	7.36	7.38	8.21	7.61	8.71
-	9.22	NA	8.95	9.26	9.19	NA	10.09	9.78
Alassachusetts	4.88	4.99	4.56	4.92	4.85		4.93	
Aichigan						5.15		5.08
MinnesotaMississippi	5.08 NA	6.20 5.90	4.91 5.18	5.11 5.39	5.07 NA	5.79 NA	5.17 5.67	6.12 6.70
• •	NA				NA	NA		
Missouri		6.59	5.21	5.86			6.45	6.68
Montana	4.93	4.48	4.60	5.03	4.87	5.07	5.33	5.42
Nebraska	5.12	6.01	4.28	4.93	5.28	5.87	6.19	6.19
Nevada	6.65	5.64	5.70	6.79	6.53	6.29	6.20	6.74
New Hampshire	8.34	9.17	7.17	8.38	8.30	NA	8.46	8.87
lew Jersey	7.32	7.58	6.74	7.23	7.41	7.85	7.48	7.63
New Mexico	4.25	5.50	3.86	5.23	3.72	5.75	3.61	4.47
New York	8.74	10.28	8.11	8.67	R8.80	R10.32	R10.22	R10.65
North Carolina	8.14	8.76	6.47	7.93	8.33	9.00	8.05	8.23
lorth Dakota	4.59	4.38	4.37	4.68	4.52	4.93	5.57	5.67
Nhia	6.00	6 77	E 1E	E 7E	6.25	6.75	6.20	6.24
Ohio	6.02	6.77	5.15	5.75	6.25	6.75	6.20	6.31
Oklahoma	5.64	6.13	4.81	5.73	5.56	6.35	5.56	6.17
Oregon	6.24	5.74	5.90	6.44	6.09	6.11	5.89	6.15
Pennsylvania Rhode Island	8.78 8.84	7.84 8.99	6.52 7.55	8.03 8.86	9.60 8.83	8.33 9.61	7.76 8.97	7.94 9.74
	0.04	0.33	1.00	5.00	0.00	5.01	0.91	3.14
South Carolina	8.22	8.68	7.01	8.27	8.17	8.60	7.98	8.00
South Dakota	5.03	5.32	4.55	5.07	5.01	5.75	5.94	6.17
ennessee	NA	6.92	5.71	6.31	NA	NA	6.81	6.89
exas	5.94	6.22	5.03	6.58	5.42	6.41	5.67	6.50
Jtah	5.78	4.90	4.24	5.73	5.83	5.10	5.25	5.66
ermont	6.21	6.04	6.00	6.23	6.19	6.41	6.21	6.43
/irginia	8.08	8.49	7.03	8.05	8.11	8.83	8.42	9.02
Vashington	NA NA	5.39	5.40	5.72	NA NA	NA NA	NA NA	NA NA
Vest Virginia	6.51	6.68	6.65	6.51	6.51	6.96	6.54	6.59
Visconsin Vyoming	5.97 NA	6.88 3.68	5.85 4.14	5.98 5.14	5.96 NA	6.53 4.51	6.37 6.52	7.24 5.19
Total	6.41	6.76	5.72	6.40	6.42	^R 6.93	^R 6.56	^R 6.85

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

Nabama	Alabama	11.10	September	August	July	June	May	April	March
Maska	Naska				-	I .			
Jaska	laska								
11.33 9.10 10.54 10.05 9.59 8.68 7.93 17.87 17.81 17.42 7.57 7.05 7.71 6.38 6.18 6									8.65
rikansas 8.66 9.53 9.25 8.64 8.23 6.93 6.40 alifornia 7.81 7.42 7.57 7.05 7.71 6.38 6.18 olorado MA NA NA <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.75</td></th<>									3.75
alifornia	1ZU118								7.03
NA									6.14
Name	alifornia	7.81	7.42	7.57	7.05	7.71	6.38	6.18	6.42
Blaware 10.81 11.91 11.94 11.69 10.13 8.93 8.25	olorado		NA	NA	NA	NA	NA	3.92	NA
istrict of Columbia	onnecticut	NA	11.58	11.48	11.35	10.71	10.71	10.07	9.66
istrict of Columbia	elaware	10.81	11.91	11.94	11.69	10.13	8.93	8.25	7.94
Denda									8.57
awaii 21,04 21,33 21,61 21,17 21,51 21,78 21,30 2 ahaho 5.66 MA 6.51 6.16 6.51 5.26 5.10 clinois 6.07 8.00 7.87 7.83 7.93 5.43 5.10 clinois 7.80 11,19 10.25 9.53 8.08 6.21 5.24 ansas 7.74 8.54 8.27 7.54 8.03 6.24 6.04 entucky MA 7.94 9.22 9.15 7.56 6.67 6.84 outsians MA 9.42 8.76 8.41 6.45 7.52 6.09 alane 7.80 9.46 9.25 9.69 8.39 7.95 9.05 alane 8.26 9.46 9.25 9.69 8.39 7.95 9.05 alane 8.26 8.14 alassachusetts 8.56 10.09 10.39 9.86 8.32 7.49 9.90 cliningan 5.74 6.81 7.26 6.88 6.15 5.10 4.92 intensecta 6.58 7.62 7.17 7.06 6.36 6.53 4.66 ississippi 8.29 MA MA 7.36 6.91 6.42 iissouri MA 9.59 9.38 8.77 7.53 5.88 5.31 contains 5.84 6.73 6.89 7.46 6.10 5.00 4.73 ebraska 7.53 7.90 7.72 7.43 6.71 4.66 4.91 evada 7.76 7.95 7.99 7.58 7.31 6.63 6.16 ew Hampshire 7.47 MA 9.17 9.01 7.59 6.62 6.62 ew Jersey 8.52 9.80 9.82 9.62 9.38 8.30 7.71 ew Mexico 8.32 10.84 11.07 11.66 40.76 6.53 8.78 ew York 11.12 11.50 11.73 12.24 10.31 8.59 8.68 encylone 8.89 10.89 9.38 8.71 7.55 6.74 6.60 encylone 8.32 10.84 11.07 11.66 40.76 6.53 8.78 ew York 11.17 11.75 12.64 11.24 11.31 12.24 10.31 8.59 8.68 encylone 6.68 7.58 8.61 11.00 11.12 11.50 11.78 10.15 8.88 8.41 10.04 11.05 11.78 10.15 8.88 8.41 10.04 11.05 11.78 10.15 8.88 8.41 10.04 11.05 11.78 10.15 8.88 8.41 10.06 island 10.06 12.10 12.53 11.17 11.66 40.76 6.53 8.78 encylone 6.68 7.58 8.12 7.53 7.21 6.39 6.04 encylone 6.69 7.50 9.10 9.00 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73									12.12
awaii 21,04 21,33 21,61 21,17 21,51 21,78 21,30 2 ahaho 5.66 MA 6.51 6.16 6.51 5.26 5.10 clinois 6.07 8.00 7.87 7.83 7.93 5.43 5.10 clinois 7.80 11,19 10.25 9.53 8.08 6.21 5.24 ansas 7.74 8.54 8.27 7.54 8.03 6.24 6.04 entucky MA 7.94 9.22 9.15 7.56 6.67 6.84 outsians MA 9.42 8.76 8.41 6.45 7.52 6.09 alane 7.80 9.46 9.25 9.69 8.39 7.95 9.05 alane 8.26 9.46 9.25 9.69 8.39 7.95 9.05 alane 8.26 8.14 alassachusetts 8.56 10.09 10.39 9.86 8.32 7.49 9.90 cliningan 5.74 6.81 7.26 6.88 6.15 5.10 4.92 intensecta 6.58 7.62 7.17 7.06 6.36 6.53 4.66 ississippi 8.29 MA MA 7.36 6.91 6.42 iissouri MA 9.59 9.38 8.77 7.53 5.88 5.31 contains 5.84 6.73 6.89 7.46 6.10 5.00 4.73 ebraska 7.53 7.90 7.72 7.43 6.71 4.66 4.91 evada 7.76 7.95 7.99 7.58 7.31 6.63 6.16 ew Hampshire 7.47 MA 9.17 9.01 7.59 6.62 6.62 ew Jersey 8.52 9.80 9.82 9.62 9.38 8.30 7.71 ew Mexico 8.32 10.84 11.07 11.66 40.76 6.53 8.78 ew York 11.12 11.50 11.73 12.24 10.31 8.59 8.68 encylone 8.89 10.89 9.38 8.71 7.55 6.74 6.60 encylone 8.32 10.84 11.07 11.66 40.76 6.53 8.78 ew York 11.17 11.75 12.64 11.24 11.31 12.24 10.31 8.59 8.68 encylone 6.68 7.58 8.61 11.00 11.12 11.50 11.78 10.15 8.88 8.41 10.04 11.05 11.78 10.15 8.88 8.41 10.04 11.05 11.78 10.15 8.88 8.41 10.04 11.05 11.78 10.15 8.88 8.41 10.06 island 10.06 12.10 12.53 11.17 11.66 40.76 6.53 8.78 encylone 6.68 7.58 8.12 7.53 7.21 6.39 6.04 encylone 6.69 7.50 9.10 9.00 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73	eorgia	8.02	10.57	11 75	11 97	12 38	10.42	6 23	8.88
Section Sect									22.29
Include									4.95
wa 7.80 11.19 10.25 9.53 8.08 6.21 5.24 ansas 7.74 8.54 8.27 7.54 8.03 6.24 6.04 entucky MA 7.94 9.22 9.15 7.56 6.67 6.84 Jusisian MA 9.42 8.76 8.41 8.45 7.52 6.09 airle 7.80 9.69 8.99 7.95 9.05 aryland 9.91 10.72 11.35 10.88 9.62 8.26 8.14 assachusetts 8.58 10.09 10.39 9.86 8.32 7.49 9.90 ichigan 5.74 6.81 7.62 7.17 7.06 6.36 5.32 4.66 isissoirpi 8.29 NA NA NA 7.36 6.81 5.31 innesota 6.58 7.62 7.17 7.06 6.36 5.32 4.66 isissouri NA NA									
wa									5.28
ansas 7,74 8,54 8,27 7,54 8,03 6,24 6,04 entucky NA 7,94 9,22 9,15 7,56 6,67 6,84 buisiana NA 9,42 8,76 8,41 8,45 7,52 6,09 aine 7,800 9,46 9,25 9,69 8,39 7,95 9,05 aryland 9,91 10,72 11,35 10,88 9,62 8,26 8,14 assachusetts 8,56 10,09 10,39 9,86 8,32 7,49 9,90 (chigan 5,74 6,81 7,26 6,88 6,15 5,10 4,92 innesota 6,58 7,62 7,17 7,06 6,36 5,32 4,66 ississippi 8,29 NA NA NA NA 7,36 6,91 6,42 issouri NA 9,59 9,38 8,77 7,53 5,88 5,31 ontana 5,84 6,73 6,98 7,46 6,10 5,00 4,73 ebraska 7,53 7,90 7,72 7,43 6,71 4,65 4,91 evada 7,67 7,95 7,99 7,58 7,31 6,63 6,16 ever Hampshire 7,47 NA 9,17 9,01 7,59 6,62 6,62 ew Jersey 8,52 9,80 9,82 9,62 9,38 8,30 7,71 ew Mexico 8,32 10,84 11,07 11,66 40,76 6,53 8,78 ew York 11,120 13,11 13,15 12,42 10,31 8,58 8,88 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,41 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 onto 10,120 13,11 13,15 12,42 10,31 8,58 8,88 8,89 8,99 8,99 8,99 8,99 8,99	aiana	170	8.//	9.40	10.18	8.85	7.23	6.70	6.28
entucky									5.58
Simulation Na	ansas	7.74				8.03		6.04	5.98
ouisiaria NA 9.42 8.76 8.41 8.45 7.52 6.09 laine 7.80 9.46 9.25 9.69 8.39 7.95 9.05 laryland 9.91 10.72 11.35 10.88 9.62 8.26 8.14 lassachusetts 8.58 10.09 10.39 9.86 8.32 7.49 9.90 lichigan 5.74 6.81 7.26 6.88 6.15 5.10 4.92 linesotat 6.58 7.62 7.17 7.06 6.36 5.32 4.66 lissouri NA 9.59 9.38 8.77 7.53 5.88 5.31 lontana 5.84 6.73 6.98 7.46 6.10 5.00 4.73 ebraska 7.53 7.90 7.72 7.43 6.71 4.65 4.91 ew dampshire 7.47 NA 9.17 9.01 7.59 6.62 6.62 ew Jersey 8	entucky		7.94	9.22	9.15	7.56	6.67	6.84	6.32
laine	ouisiana	NA	9.42	8.76	8.41	8.45	7.52	6.09	6.28
Lassachusetts		7.80							8.65
assachusetts 8.58 10.09 10.39 9.86 8.32 7.49 9.90 lichigan 5.74 6.81 7.26 6.88 6.15 5.10 4.92 linesota 6.58 7.62 7.17 7.06 6.36 5.32 4.66 lississispi 8.29 NA NA NA 7.36 6.91 6.42 lissouri NA 9.59 9.38 8.77 7.53 5.88 5.31 ontana 5.84 6.73 6.98 7.46 6.10 5.00 4.73 evada 7.53 7.90 7.72 7.43 6.71 4.65 4.91 evada 7.67 7.95 7.99 7.58 7.31 6.63 6.16 ew Hermpshire 7.47 NA 9.17 9.01 7.59 6.62 6.62 ew Jersey 8.52 9.80 9.82 9.62 9.38 8.30 7.71 ew Mexico 8.32	andand	0.01	10.72	11 35	10.88	9.62	8.26	8 1 <i>1</i>	7.31
lichigan 5.74 6.81 7.26 6.88 6.15 5.10 4.92 innesota 6.58 7.62 7.17 7.06 6.36 5.32 4.66 ississippi 8.29 MA A A A A A A A A A A A A A A A A A A									9.70
Ilinesota 6.58 7.62 7.17 7.06 6.36 5.32 4.66 Ilississispipi 8.29 NA NA NA 7.36 6.91 6.42 Ilissouri NA 9.59 9.38 8.77 7.53 5.88 5.31 Ilissouri 5.84 6.73 6.98 7.46 6.10 5.00 4.73 ebraska 7.53 7.90 7.72 7.43 6.71 4.65 4.91 evada 7.67 7.95 7.99 7.58 7.31 6.63 6.16 ew Hampshire 7.47 NA 9.17 9.01 7.59 6.62 6.62 ew Jersey 8.52 9.80 9.82 9.62 9.38 8.30 7.71 ew Mexico 8.32 10.84 11.07 11.66 40.76 6.53 8.78 ew York *11.75 *12.64 *12.84 *12.49 *10.88 *9.51 *9.11 *9.11 *9.11 *1.00 *1.11 *1.12 *1.13 *1.13 *1.15 *1.24 *1.31 *1.34 *1.3									4.82
Section Sect	•								4.81
Second									5.49
Second		NA							
Pebraska 7.53 7.90 7.72 7.43 6.71 4.65 4.91 Pewada 7.67 7.95 7.99 7.58 7.31 6.63 6.16 Pewada 7.47 NA 9.17 9.01 7.59 6.62 6.62 Pew Hampshire 7.47 NA 9.17 9.01 7.59 6.62 6.62 Pew Hampshire 8.52 9.80 9.82 9.62 9.38 8.30 7.71 Pew Mexico 8.32 10.84 11.07 11.66 40.76 6.53 8.78 Pew York Remark Pew York Remark Re									5.70
Ievada									4.69
Na						6.71	4.65	4.91	4.86
lew Jersey	levada	7.67		7.99	7.58	7.31	6.63	6.16	5.78
lew Mexico 8.32 10.84 11.07 11.66 40.76 6.53 8.78 lew York R11.75 R12.64 R12.84 R12.49 R10.88 R9.51 R9.11 R9.61 8.60 R9.61 R9.51 R9.51 R9.51 R9.51 R9.51 R9.53 R9.61 R9.92 R9.67 R9.67 R9.93 R9.62 R9.93 R9.62	ew Hampshire	7.47	NA	9.17	9.01	7.59	6.62	6.62	9.36
lew Mexico 8.32 10.84 11.07 11.66 40.76 6.53 8.78 lew York R11.75 R12.64 R12.84 R12.49 R10.88 R9.51 R9.11 R lorth Carolina 11.20 13.11 13.15 12.42 10.31 8.58 8.68 lorth Dakota 6.26 7.54 7.02 7.05 6.37 5.10 4.10 phio 7.40 8.29 8.46 8.71 7.55 6.74 6.60 phio 7.40 8.29 8.46 8.71 7.55 6.74 6.60 phio 7.40 8.29 8.46 8.71 7.55 6.74 6.60 phio 6.68 7.88 8.12 7.53 7.21 6.38 6.04 pergon 6.68 7.88 8.12 7.53 7.21 6.38 6.04 ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41	ew Jersey	8.52	9.80	9.82	9.62	9.38	8.30	7.71	7.42
New York	lew Mexico	8.32	10.84	11.07	11.66	40.76	6.53	8.78	4.46
lorth Carolina 11.20 13.11 13.15 12.42 10.31 8.58 8.68 orth Dakota 6.26 7.54 7.02 7.05 6.37 5.10 4.10 whio 7.40 8.29 8.46 8.71 7.55 6.74 6.60 kklahoma 8.93 9.28 9.36 8.95 8.14 6.80 5.96 dregon 6.68 7.88 8.12 7.53 7.21 6.38 6.04 ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41 hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 ex									R9.73
Iorth Dakota 6.26 7.54 7.02 7.05 6.37 5.10 4.10 Whio 7.40 8.29 8.46 8.71 7.55 6.74 6.60 Walahoma 8.93 9.28 9.36 8.95 8.14 6.80 5.96 Vregon 6.68 7.88 8.12 7.53 7.21 6.38 6.04 ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41 hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah									9.59
kklahoma 8.93 9.28 9.36 8.95 8.14 6.80 5.96 pregon 6.68 7.88 8.12 7.53 7.21 6.38 6.04 ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41 hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 iriginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.14</td></t<>									4.14
klahoma 8.93 9.28 9.36 8.95 8.14 6.80 5.96 regon 6.68 7.88 8.12 7.53 7.21 6.38 6.04 ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41 hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 iriginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12	L:-	7.40	0.00	0.40	0.74	7.55	0.74	0.00	0.54
regon 6.68 7.88 8.12 7.53 7.21 6.38 6.04 ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41 hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 /ashington									6.51
ennsylvania 9.01 11.12 11.50 11.78 10.15 8.88 8.41 hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 //ashington NA NA NA NA 5.82 5.69 5.68 //est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 //sconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31									5.66
hode Island 10.64 12.10 12.53 12.30 10.90 9.70 9.67 outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 /ashington NA NA NA NA 5.82 5.69 5.68 /est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 /isconsin <									5.85
outh Carolina 9.53 10.15 10.24 9.73 8.96 8.09 8.36 outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 /ashington NA NA NA NA 5.82 5.69 5.68 /est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 /isconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31									8.05
outh Dakota 6.98 9.10 8.07 8.39 7.83 5.92 4.95 ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 Vashington NA NA NA NA 5.82 5.69 5.68 Vest Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 Visconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31	hode Island	10.64	12.10	12.53	12.30	10.90	9.70	9.67	9.39
ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 // dashington NA NA NA NA 5.82 5.69 5.68 // est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 // isconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31	outh Carolina	9.53	10.15	10.24	9.73	8.96	8.09	8.36	9.24
ennessee 8.33 8.81 9.00 8.92 NA 6.49 6.39 exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 Vashington NA NA NA NA 5.82 5.69 5.68 Vest Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 Visconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31	outh Dakota	6.98	9.10	8.07	8.39	7.83	5.92	4.95	4.83
exas 8.07 8.67 8.91 8.38 7.83 6.42 5.66 tah 4.62 5.55 5.94 5.61 5.67 5.80 4.16 ermont 7.06 8.41 8.78 8.51 7.35 6.52 6.23 irginia 11.07 12.27 12.45 12.40 10.70 9.05 8.12 /ashington NA NA NA NA 5.82 5.69 5.68 /est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 /isconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31						NA			NA
tah						7.83			5.56
rginia									5.14
rginia	ermont	7.06	8 41	8 78	8 51	7 35	6.52	6 23	6.08
/ashington NA NA NA NA S.82 5.69 5.68 /est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 /isconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31									7.56
/est Virginia 7.81 8.89 9.58 10.39 8.47 7.26 6.91 /isconsin 6.07 6.92 6.99 6.58 6.68 5.13 6.31									5.48
/isconsin									
									6.80
, Jan 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 - 1977 -									5.89 4.01
Total									R6.53

Table 21. Average Price of Natural Gas Delivered to Residential Consumers, by State, 1996-1998

Alabama	7.61 3.67 6.81 6.09 6.27	7.62 3.63	Total	December	November	October	September	August
Alaska Arizona Arkansas California Colorado Connecticut Delaware District of Columbia Georgia	3.67 6.81 6.09	3.63						
Alaska	3.67 6.81 6.09	3.63			7.00	0.74	40.00	40.00
colorado Connecticut Delaware District of Columbia Coorgia	6.81 6.09		7.22	7.36	7.83	9.71	10.63	10.98
rkansas	6.09		3.42	3.32	3.37	3.46	3.77	3.82
california		6.62	7.52	6.85	7.43	9.28	10.06	10.40
colorado connecticut delaware district of Columbia lorida Georgia	6 27	6.48	5.92	6.64	6.05	7.06	7.75	8.30
onnecticutelawarelaricit of Columbialoridaeorgia	0.27	6.27	6.44	6.20	6.41	6.67	5.94	6.85
onnecticutelawarelaricit of Columbialoridaeorgia	NA	NA	4.39	3.94	4.31	4.99	6.38	6.74
elawarelatics of Columbialoridaeeorgia	10.96	10.41	10.08	10.49	10.26	10.58	10.65	10.69
istrict of Columbialorida	7.75	7.54	7.12	7.59	7.90	9.08	10.58	10.19
loridaeorgia	9.36	9.81	9.19	10.22	9.18	10.25	10.78	7.82
	10.69	10.57	10.74	10.47	11.98	13.01	13.39	13.65
	7.47	0.50	0.00	0.75	5.00	0.54	40.00	40.50
awaii	7.47 25.55	6.53 21.14	6.69 19.81	6.75 19.51	5.83 20.71	8.51 20.95	10.32 20.47	10.50 20.50
	4.80	4.81	5.20	4.89	5.22	5.60	6.11	6.47
laho								
linois	6.50	6.15	5.28	5.13	5.05	5.93	8.14	9.26
idiana	6.06	5.82	5.54	5.65	5.52	6.55	8.37	8.68
wa	6.01	5.57	5.49	5.71	5.30	6.66	9.16	12.66
ansas	6.58	6.33	5.59	5.75	5.47	6.48	7.09	8.27
entucky	6.02	5.87	5.54	6.10	5.73	6.62	7.85	8.39
ouisiana	6.85	7.34	6.76	7.30	7.75	8.31	8.41	8.66
laine	8.66	8.10	7.84	8.53	8.05	7.04	8.23	8.90
aryland	7.64	7.68	7.60	7.81	7.30	8.45	10.11	10.95
lassachusetts	9.62	NA	8.88	9.53	9.52	7.54	9.30	9.56
	4.94	5.04	4.96		5.01	5.58	6.55	
lichigan				5.07				7.32
linnesotalississippi	5.81 5.61	6.50 6.17	5.46 5.72	6.18 6.58	5.47 6.28	5.48 6.35	6.67 6.35	7.67 6.40
lissouri	6.50	6.67	5.97	6.02	5.94	7.58	9.53	10.20
lontana	4.49	4.47	4.86	4.59	4.89	5.53	6.18	6.64
ebraska	5.75	6.21	4.88	5.35	5.01	5.59	6.74	7.02
evada	5.76	5.54	6.19	5.69	6.05	7.40	7.91	8.13
lew Hampshire	9.24	9.10	7.40	8.41	8.67	7.05	8.26	8.58
ew Jersey	7.47	7.67	7.16	7.02	7.29	7.66	8.73	8.72
lew Mexico	5.09	5.81	4.47	3.72	3.80	5.80	8.53	7.36
ew York	R10.13	R10.43	8.90	NA NA	NA	NA	NA	NA NA
orth Carolina	8.76	8.77	7.59	7.90	8.21	9.93	12.45	12.81
	4.32	4.43	4.54	4.34	3.84	4.66	6.20	7.43
orth Dakota	4.32	4.43	4.54	4.34	3.04	4.00	6.20	7.43
hio	6.83	6.72	5.90	6.29	6.56	7.29	8.41	8.98
klahoma	5.79	6.44	5.64	5.32	5.99	8.12	9.14	9.58
regon	5.76	5.73	6.31	5.95	6.30	7.01	7.85	8.28
ennsylvania	8.05	7.64	7.38	7.60	7.80	8.60	10.61	10.70
hode Island	9.18	8.79	8.49	8.68	9.36	9.90	11.21	11.29
outh Carolina	8.69	8.67	7.41	7.85	7.50	8.21	9.27	9.72
outh Dakota	5.09	5.50	5.25	5.39	5.41	5.94	7.62	11.79
	7.00	6.84	6.26	6.17	5.93	7.07	8.46	8.77
ennessee								
exastah	6.05 4.89	6.35 4.91	5.89 4.47	6.14 4.75	5.34 4.81	7.07 3.79	7.86 4.15	8.37 5.19
ıuıı	₹.03	7.31	7.41	7.73	7.01	5.13	7.13	5.19
ermont	6.04	6.04	6.40	6.19	6.42	7.21	8.41	8.92
irginia	8.07	8.87	7.94	8.48	8.26	9.78	11.94	12.50
/ashington	5.40	5.39	5.65	5.44	5.60	6.09	6.87	7.32
/est Virginia	6.67	6.68	7.02	6.80	7.01	7.55	9.22	10.24
/isconsin	6.61	7.08	6.04	6.87	6.25	5.02	6.01	6.73
Vyoming	3.91	3.51	4.26	3.97	3.75	3.95	5.29	5.68
Total	^R 6.80	^R 6.74	6.34	6.47	6.37	7.05	7.99	8.73

R = Revised Data.
NA = Not Available.
Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia.
See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.
Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

Stato	YTD	YTD	YTD	1998		1997		
State	1998	1997	1996	February	January	Total	December	Novembe
labama	6.57	6.94	5.71	6.47	6.65	7.04	6.61	6.83
laska	2.18	2.59	2.41	1.23	2.49	2.45	2.55	2.53
rizona	5.62	5.06	4.96	5.59	5.65	5.33	5.56	5.83
rkansas	5.16	5.25	4.35	5.19	5.14	5.21	5.12	5.45
alifornia	6.71	7.08	6.47	6.75	6.69	6.48	7.04	7.09
olorado	NA	NA	3.70	3.34	NA	NA	3.62	NA
onnecticut	7.51	8.26	7.84	7.28	7.73	NA	6.78	7.88
Delaware	6.71	6.43	5.33	6.72	6.70	6.78	6.65	6.97
District of Columbia	7.50	8.11	7.46	7.34	7.65	8.05	8.11	8.78
lorida	7.68	6.70	6.28	7.79	7.58	6.94	7.31	7.41
Georgia	6.01	6.55	5.44	5.86	6.16	6.37	5.66	5.46
lawaii	14.38	14.90	13.10	14.41	14.35	NA	14.02	NA NA
daho	4.40	4.30	4.44	4.40	4.41	4.47	4.34	4.66
linois	4.55	5.80	4.44	4.25	4.76	5.45	5.24	5.28
	4.55 NA				4.76 NA	5.45 NA	5.∠4 NA	
ndiana	7	5.27	4.13	5.97				4.92
owa	4.43	5.11	4.01	4.08	4.71	5.23 NA	5.20 NA	5.53
ansas	5.44	6.18	4.43	5.43	5.44	NA NA		6.00
Centucky	5.46	5.69	4.51	5.63	5.32		5.92	6.03
ouisiana	5.51	6.78	5.71	5.24	5.73	6.28	5.94	7.10
laine	7.41	7.91	6.90	7.41	7.41	7.70	7.79	7.62
laryland	6.16	6.66	5.96	6.18	6.14	6.47	6.35	7.11
lassachusetts	7.43	8.13	7.48	7.47	7.39	7.31	8.03	7.74
lichigan	4.77	4.90	4.49	4.76	4.77	4.92	4.79	4.95
linnesota	4.47	5.65	4.41	4.42	4.50	4.85	4.40	5.26
lississippi	NA	5.40	4.76	4.35	NA	NA	5.08	5.58
lissouri	NA	6.52	5.08	5.63	NA	NA	6.16	6.01
Iontana	4.90	4.46	4.53	4.97	4.85	4.69	5.24	3.81
lebraska	4.56	5.59	4.35	4.44	4.66	4.86	5.34	5.40
levada	5.69	4.91	4.82	5.76	5.63	5.13 NA	5.36	5.47
lew Hampshire	7.59	8.61	6.80	7.57	7.60	NA.	7.79	7.83
lew Jersey	4.50	6.90	7.51	4.13	4.85	5.87	4.93	5.30
lew Mexico	3.93	4.88	3.32	4.35	3.66	4.45	3.59	3.90
lew York	6.25	7.82	NA	6.29	^R 6.22	^R 6.70	^R 6.76	^R 7.01
lorth Carolina	6.89	7.60	5.75	6.72	7.05	6.99	6.96	6.70
lorth Dakota	4.07	4.17	3.99	4.13	4.03	4.34	4.92	5.11
hio	5.71	6.59	4.87	5.43	5.96	6.31	5.94	6.05
klahoma	5.54	6.09	4.50	5.56	5.53	5.50	5.37	5.32
regon	5.03	4.56	4.81	5.17	4.92	4.64	4.67	4.74
ennsylvania	7.25	7.29	5.84	7.36	7.14	7.36	6.90	6.89
thode Island	7.76	8.04	7.11	7.78	7.75	8.21	7.98	8.02
outh Carolina	6.92	7.50	6.43	6.91	6.92	6.47	6.84	6.75
outh Dakota	4.11	4.46	3.78	4.10	4.12	4.71	5.06	5.22
	4.11 NA	6.35	5.50	6.37	4.1∠ NA	4.7 I NA	6.29	6.12
ennessee								
exas	4.99	5.69	4.33	5.37	4.66	R5.00	^R 5.12	^R 5.41
tah	4.45	3.78	3.32	4.35	4.54	3.91	4.39	4.65
ermont	5.22	5.23	5.26	5.23	5.21	5.18	5.15	4.99
irginia	6.37	6.80	5.73	6.33	6.41	6.49	6.53	6.42
Vashington	NA	4.68	4.75	4.81	NA	NA	NA	NA
Vest Virginia	6.27	6.11	6.02	6.26	6.28	6.42	6.20	6.30
Visconsin	5.05	5.91	4.77	4.96	5.12	5.41	5.52	6.04
Vyoming	NA	3.47	3.92	4.56	NA	NA	5.56	4.62

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998

State				19	97			
State	October	September	August	July	June	Мау	April	March
	- 40							
labama	7.46	7.59	7.50	7.60	7.22	6.85	7.11	7.26
laska	2.52	2.28	2.09	2.24	2.15	2.23	2.37	2.53
rizona	5.83	5.82	5.34	5.22	5.21	5.19	5.09	5.27
irkansas	5.75	5.54	5.18	5.32	5.37	5.14	4.90	4.86
alifornia	6.70	5.88	5.00	5.90	6.32	5.33	6.10	6.71
Colorado	NA	NA	NA	NA	NA	NA	3.29	NA
Connecticut	NA	6.59	5.22	5.90	6.35	7.00	7.24	7.66
Delaware	7.56	7.28	8.64	7.91	7.39	6.82	6.61	6.47
District of Columbia	8.08	8.11	7.20	6.92	7.03	6.87	10.06	7.61
lorida	7.13	6.94	6.62	6.98	6.93	6.89	6.74	6.96
Georgia	5.98	6.28	7.00	7.60	7.68	6.30	5.57	7.53
lawaii	14.75	14.62	15.09	15.07		15.25	15.34	15.72
					15.37			
daho	4.73	4.73	4.83	4.76	4.78	4.66	4.62	4.36
linois	5.82	6.24	6.10	5.68	5.55	4.93	4.64	4.97
ndiana	4.93	6.05	6.07	6.50	6.28	6.15	5.97	5.37
owa	5.97	7.44	6.44	5.68	6.05	4.88	4.34	4.81
ansas	5.92	5.66	4.90	4.95	4.90	5.25	5.17	5.46
Centucky	NA	5.90	5.95	6.20	6.00	5.53	5.85	5.72
ouisiana	7.30	6.20	5.94	5.39	6.19	6.08	5.08	5.78
Maine	6.84	7.61	7.16	7.12	6.94	6.67	8.28	8.10
laryland	7.18	6.89	6.22	6.16	6.52	6.05	5.76	6.11
			5.53			5.44	7.94	8.14
Massachusetts	5.63	5.45		5.34	5.04			
/lichigan	5.40	5.97	5.96	5.81	5.44	4.82	4.63	4.71
InnesotaIississippi	5.09 5.98	4.99 NA	4.41 NA	4.44 NA	4.50 4.79	3.99 5.08	3.89 4.93	4.16 4.61
	NA							
Aissouri		5.70	5.19	5.11	4.86	4.39	4.55	5.07
Montana	5.39	4.39	5.73	5.62	5.39	4.81	4.52	4.57
lebraska	5.26	4.33	3.76	3.56	5.88	5.00	3.91	4.23
levada	5.48	5.22	5.22	5.11	5.07	5.12	5.18	4.95
lew Hampshire	6.15	NA	6.47	6.49	6.20	5.86	6.52	8.67
lew Jersey	4.91	4.27	4.43	4.32	4.38	5.77	5.57	6.99
lew Mexico	4.67	5.12	5.35	5.47	7.67	4.23	4.63	3.54
lew York	R14.75	R5.35	R4.78	R4.22	^R 4.99	^R 5.84	^R 6.20	R6.85
lorth Carolina	6.18	6.46	6.44	6.44	5.99	6.02	6.50	7.85
lorth Dakota	4.97	5.15	4.51	4.96	4.54	4.25	3.66	3.65
	0.00	0.54	0.00	0.70	7.00	0.00	0.40	0.00
Ohio	6.22	6.54	6.82	6.76	7.39	6.08	6.18	6.03
Oklahoma	5.54	5.02	4.94	4.93	5.15	4.97	4.81	5.26
Oregon	4.66	4.82	4.89	4.76	4.79	4.62	4.61	4.57
ennsylvania	7.26	7.68	7.92	8.12	8.13	7.99	7.70	7.37
thode Island	8.00	8.77	9.12	8.96	8.77	8.07	8.46	8.17
South Carolina	6.10	3.26	6.03	5.90	5.92	5.92	6.74	7.20
South Dakota	5.50	6.51	5.22	5.44	6.09	4.77	4.04	3.96
ennessee	6.09	6.07	5.81	5.91	NA	5.39	5.01	NA
exas	4.76	4.84	4.40	4.51	4.80	4.60	4.29	4.42
tah	3.78	3.99	4.02	3.82	3.60	3.37	3.09	3.81
armant	4.04	E 04	E 40	E 40	E 44	E F0	E 40	E 45
ermont	4.91	5.01	5.43	5.42	5.41	5.58	5.10	5.15
'irginia	6.56 NA	6.60 NA	6.58 NA	6.68 NA	6.10	6.31	6.29	5.93
Vashington					4.66	4.83	4.21	4.71
Vest Virginia	7.01	7.63	8.23	8.53	7.78	6.81	6.42	6.22
Visconsin	4.88	4.85	4.71	4.30	4.74	3.83	5.07	5.03
Vyoming	5.02	NA	4.31	4.11	3.93	2.65	3.59	3.46
Total	^R 5.94	^R 5.54	^R 5.32	^R 5.28	^R 5.56	^R 5.36	^R 5.46	R5.72

Table 22. Average Price of Natural Gas Sold to Commercial Consumers, by State, 1996-1998

State	1997		1996							
State	February	January	Total	December	November	October	September	Augus		
labama	6.92	6.97	6.19	6.52	6.31	6.60	6.81	6.88		
laska	2.52	2.63	2.32	2.39	2.34	2.23	2.02	2.03		
rizona	5.11	5.01	5.01	4.99	5.02	5.16	5.19	5.15		
rkansas	5.07	5.42	4.68	5.59	5.02	4.72	4.67	4.86		
alifornia	6.98	7.18	5.94	6.36	5.49	5.68	5.46	5.25		
olorado	NA	NA	3.67	3.32	3.41	3.69	3.93	4.03		
onnecticut	8.45	8.09	7.41	7.90	7.84	6.19	5.95	5.70		
elaware	6.54	6.33	5.82	6.19	5.96	6.39	6.45	6.88		
istrict of Columbia	7.97	8.24	7.37	8.01	8.02	7.93	7.35	5.87		
lorida	6.84	6.56	6.45	6.47	6.43	6.41	6.38	6.39		
	0.00	0.44	5.00	0.00	5.70	0.00	5.04	F 05		
eorgia	6.66	6.44	5.89	6.33	5.72	6.08	5.94	5.95		
awaii	15.07	14.72	14.40	15.13	15.31	15.35	14.62	14.94		
laho	4.29	4.30	4.56	4.34	4.63	4.86	4.91	4.92		
linois	5.68	5.89	4.92	5.20	4.83	5.23	6.25	7.66		
ndiana	5.43	5.14	4.67	4.98	4.66	5.01	5.97	5.87		
owa	5.32	4.96	4.59	5.16	5.09	5.32	5.62	8.72		
ansas	6.25	6.12	4.61	4.90	4.56	4.69	5.44	5.98		
entucky	5.80	5.61	5.09	5.67	5.50	5.80	5.95	6.34		
ouisiana	6.48	7.08	6.08	6.87	6.58	6.15	5.90	6.11		
laine	8.12	7.75	7.09	7.87	7.58	6.17	6.55	6.57		
laryland	6.72	6.60	6.07	6.61	5.69	5.88	6.27	6.51		
lassachusetts	8.28	7.97	6.74	7.91	7.30	4.79	4.88	4.87		
lichigan	4.80	4.99	4.75	4.97	4.85	5.24	5.52	6.09		
linnesota	5.23	6.02	4.63	5.66	4.61	3.99	4.26	4.95		
lississippi	5.17	5.61	5.22	5.73	4.86	4.31	4.25	4.14		
!!===!	0.47	0.50	5.05	5.00	5.00	5.00	5.04	0.07		
lissouri	6.47	6.58	5.35	5.83	5.32	5.36	5.94	6.37		
Iontana	4.45	4.46	4.64	4.49	4.68	5.07	5.27	5.32		
ebraska	5.24	5.91	4.47	5.38	4.03	4.93	3.35	4.37		
levada	4.86	4.97	4.90	4.88	4.89	5.13	5.14	5.10		
lew Hampshire	8.81	8.41	6.74	7.75	7.78	5.86	6.14	6.23		
ew Jersey	7.10	6.73	6.14	6.31	5.71	4.61	4.50	4.47		
lew Mexico	4.37	5.36	3.35	3.34	3.20	3.48	4.17	3.37		
	^R 7.53	^R 8.13	6.88	NA NA	NA	NA	NA	NA NA		
ew York					0.07			C 27		
orth Carolina	7.67	7.52	6.18	6.78	6.67	6.35	6.38	6.37		
orth Dakota	4.09	4.24	3.91	4.06	3.06	3.15	3.77	4.98		
hio	6.74	6.45	5.38	5.82	6.15	6.43	6.67	6.88		
klahoma	5.75	6.40	4.70	5.04	4.80	5.06	5.03	5.12		
regon	4.55	4.56	4.85	4.65	4.82	5.09	5.11	5.09		
ennsylvania	7.55	7.07	6.44	6.86	6.61	7.00	7.53	7.26		
hode Island	8.20	7.88	7.50	7.89	7.78	8.23	7.95	7.95		
outh Carolina	7.54	7.40	6.00	7.04	6 27	E 00	E 70	F 74		
outh Carolina	7.54	7.46	6.26	7.01	6.37	5.66	5.76	5.74		
outh Dakota	4.28	4.61	4.20	4.34	4.20	4.07	5.15	8.54		
ennessee	6.19	6.51	5.72	5.78	5.32	5.50	6.05	6.33		
exas	5.28	6.00	4.27	5.38	4.58	4.24	4.33	3.89		
tah	3.75	3.81	3.38	3.69	3.80	2.96	3.07	3.32		
ermont	5.21	5.24	5.24	5.20	5.11	5.11	5.19	5.44		
irginia	6.61	6.97	5.93	6.74	5.94	6.08	6.47	6.65		
ashington	4.72	4.65	4.80	4.76	4.79	4.88	5.03	5.10		
/est Virginia	6.13	6.09	6.03	5.85	6.26	5.82	6.27	4.85		
Visconsin	5.60	6.14	4.83	5.73	4.99	3.72	4.08	4.66		
Vyoming	3.53	3.41	3.68	3.08	2.60	3.73	4.06	3.90		
Total	^R 6.10	^R 6.15	5.40	5.78	5.40	5.33	5.46	5.56		

R = Revised Data.

NA = Not Available.

Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to commercial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial use. See Explanatory Note 5 for further explanation.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

	YTD	YTD	YTD	19	98		1997	
State	1998	1997	1996	February	January	Total	December	Novembe
llabama	3.49	4.23	3.89	3.50	3.47	3.46	3.57	3.62
.laska	1.54	1.56	1.45	1.52	1.56	1.54	1.56	1.55
rizona	3.63	4.01	3.86	3.76	3.53	3.56	3.37	3.20
rkansas	3.70	4.13	3.13	3.62	3.77	3.70	3.98	4.28
alifornia	4.91	5.41	4.08	5.34	4.55	4.07	4.45	4.63
Colorado	NA	NA	0.88	2.58	NA	NA	2.74	NA
Connecticut	5.13	5.94	6.04	5.13	5.12	4.72	4.81	4.96
Delaware	4.15	5.15	3.91	4.08	4.22	4.32	4.60	4.69
District of Columbia	-	-	-				-	
lorida	7.26	4.68	4.28	7.88	6.75	NA	4.94	5.21
	5.50	5.99	4.61	5.37	5.63	5.18	4.61	5.04
Georgia Hawaii	- -	5.99	4.61	5.5 <i>i</i>	5.63 —	-	4.61	- 5.04
daho a	3.04	2.77	3.04	3.02	3.06	2.73	2.77	2.74
Ilinois	4.18	6.24	3.73	4.12	4.22	4.71	4.92	5.69
ndiana	NA NA	4.20	3.32	4.84	NA NA	NA .	NA NA	3.48
owa	2.98	4.26	3.29	2.42	3.43	4.12	4.56	4.55
Kansas	4.67	3.87	3.29	3.67	5.52	NA NA	NA NA	4.15
						NA		
Centucky	4.55	4.73	3.85	4.51	4.59		5.01	5.39
ouisiana	2.88	3.87	3.06	2.86	2.90	2.96	3.12	3.52
Maine	6.02	7.02	5.94	6.02	6.02	5.55	7.19	5.88
Maryland	4.94	NA	4.88	4.82	5.42	NA -	5.49	5.32
Massachusetts	6.75	7.94	6.75	6.70	6.79	^R 5.97	7.02	6.63
1ichigan	4.00	4.09	4.00	4.11	3.90	4.19	4.19	4.24
linnesota	3.13	4.14	2.93	3.00	3.25	3.24	3.24	3.86
/lississippi	NA	4.14	3.56	3.22	NA	NA	3.53	4.04
fissouri	NA	5.64	4.44	4.69	NA	NA	5.36	5.04
Montana	4.83	4.79	4.83	4.85	4.82	4.87	4.93	4.88
lebraska	3.29	4.64	3.19	3.27	3.30	3.73	3.97	4.32
levada	5.98	6.33	4.96	6.06	5.90	7.27	8.10	9.69
lew Hampshire	6.39	7.96	5.55	5.84	7.08	NA NA	7.42	6.53
lew Jersey	3.57	4.97	4.58	3.42	3.71	3.83	4.33	4.41
New Mexico	3.25	3.16	2.70	5.84	2.16	3.12	2.38	2.96
lew York	5.41	5.82	5.50	5.27	^R 5.54	R4.50	^R 5.42	^R 5.48
lorth Carolina	4.68	5.56	4.67	4.41	4.95	4.65	5.10	5.05
lorth Dakota	3.12	4.71	3.34	3.01	3.22	3.23	3.43	3.85
Ohio	5.35	6.12	3.96	5.06	5.62	5.70	5.60	5.54
Oklahoma	4.14	4.93	3.03	4.18	4.10	4.05	4.26	4.37
Oregon	3.70	3.25	3.19	3.73	3.67	3.17	3.36	3.21
Pennsylvania	4.68	5.25	4.60	4.55	4.80	R4.73	4.56	4.59
Rhode Island	4.43	5.57	5.02	4.25	4.59	4.33	5.04	4.59
outh Carolina	3.53	4.49	4.33	3.38	3.67	3.45	3.95	4.26
South Dakota	3.28	4.53	3.36	3.25	3.30	4.01	3.71	4.36
ennessee	NA	4.77	3.89	3.98	NA	NA	4.47	4.17
exas	2.59	3.71	2.54	2.52	2.66	NA	2.80	3.51
Itah	3.13	2.49	2.08	3.19	3.06	2.62	3.11	2.98
ermont	3.03	3.23	3.56	3.01	3.06	3.07	3.11	3.12
irginia	4.89	4.22	4.29	4.99	4.81	3.98	4.27	
	4.89 NA				4.61 NA	3.96 NA	4.27 NA	3.97 NA
Vashington		3.96	2.50	2.81				
Vest Virginia	2.78	3.24	2.71	2.75	2.81	2.87	2.75	2.68
Visconsin	4.08 NA	4.77	3.48	4.48	3.79 NA	4.12 NA	4.53	5.05
Vyoming	INA	3.41	2.96	4.29	INA	IAW	3.55	3.55
Total	3.63	4.43	3.61	3.60	R3.66	R3.53	3.78	4.07

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

State	1997										
State	October	September	August	July	June	Мау	April	March			
Mabama	3.66	3.21	3.21	3.08	3.20	3.19	2.96	3.15			
ılaska	1.54	1.57	1.56	1.56	1.48	1.44	1.53	1.55			
rizona	3.68	3.26	3.10	3.16	3.90	3.90	4.31	4.06			
Arkansas	3.87	3.58	3.57	3.42	3.37	3.17	3.19	3.31			
California	4.28	3.50	3.42	3.79	4.00	2.51	3.45	4.24			
Colorado	NA	NA	NA	NA	NA	NA	2.17	NA			
Connecticut	4.29	4.07	3.86	3.93	4.02	4.22	4.46	4.91			
Delaware	4.55	4.06	4.07	4.04	3.99	3.62	3.62	4.35			
District of Columbia	_	_	_	_	_	_	_	_			
Torida	5.02	NA	4.64	4.32	4.40	4.34	4.41	4.42			
Georgia	4.80	6.43	4.68	4.81	6.14	4.67	4.39	5.07			
lawaii	-	_	-	_	-	_	_	-			
daho ^a	2.72	2.69	2.68	2.80	2.52	2.73	2.75	2.75			
linois	4.57	3.83	4.48	4.15	3.16	3.00	4.10	4.80			
ndiana	3.57	4.07	3.95	3.91	4.38	4.50	4.67	4.41			
owa	4.42	3.90	3.52	4.11	3.37	3.96	3.14	4.04			
Kansas	4.20	3.44	3.10	3.01	3.03	2.57	2.32	2.34			
Centucky	NA	3.99	3.87	3.90	3.61	3.73	3.82	3.97			
ouisiana	3.54	2.86	2.49	2.76	2.71	2.39	2.34	2.09			
	4.68	4.65	4.43	4.40	4.45	4.10	5.77	7.08			
Maine	4.00	4.05	4.43	4.40	4.45	4.10	5.77	7.00			
Maryland	4.36	4.87	4.49	5.38	4.67	4.71	20.15	5.67			
/lassachusetts	4.54	4.19	4.02	4.19	3.73	4.63	6.35	7.12			
/lichigan	4.51	4.16	4.53	4.60	4.41	4.24	4.12	4.15			
/linnesota	3.80	3.06	2.74	2.58	2.72	2.67	2.58	2.74			
Mississippi	3.86	NA	NA	NA	3.21	3.06	2.98	2.93			
Missouri	NA	3.89	3.88	3.81	3.81	3.45	3.78	4.48			
Montana	4.99	4.98	4.98	4.96	4.88	4.85	4.84	4.84			
Nebraska	4.15	3.48	3.38	3.09	3.02	2.77	2.66	3.19			
Nevada	11.58	9.23	7.42	7.08	7.50	7.77	5.80	4.67			
New Hampshire	4.54	NA NA	3.46	3.42	3.62	3.12	4.02	6.10			
lew Jersey	3.79	3.31	2.72	3.35	3.32	3.09	2.87	4.82			
lew Mexico	3.56	3.24	3.02	2.92	3.71	2.96	5.10	3.40			
lew York	^R 4.95	R3.88	^R 4.20	^R 1.56	^R 4.32	^R 4.49	^R 4.58	R5.22			
lorth Carolina	4.13	4.30	2.83	4.00	3.64	4.01	4.14	4.80			
lorth Dakota	4.07	3.35	3.66	3.14	3.02	2.42	2.37	1.60			
Ohio	4.99	5.55	5.38	4.42	6.96	4.50	5.96	5.49			
Oklahoma	4.10	3.44	3.33	3.34	3.32	2.75	3.08	3.90			
Oregon	3.04	3.03	2.96	3.15	3.10	3.15	3.16	3.25			
Pennsylvania	4.46	4.21	4.14	^R 4.59	4.70	4.48	4.73	4.91			
Rhode Island	4.28	4.08	3.66	3.78	3.74	4.72	3.56	4.50			
outh Carolina	3.97	3.23	3.25	1.89	3.32	3 26	3 21	3.43			
	4.04	4.40	0.00	4.40		3.26	3.21				
South Dakota	4.64	4.16	3.96	4.49	4.08 NA	3.55	3.12	3.00 NA			
ennessee	4.16	3.89 NA	3.44	3.09		3.19	3.40				
exas	3.29		2.34	2.41	2.46	2.31	2.03	2.08			
Itah	2.81	2.61	2.81	2.70	2.27	2.27	2.31	2.53			
ermont	2.97	3.00	2.96	2.97	3.01	3.05	2.98	3.10			
/irginia	3.44	3.98	3.95	3.82	3.88	4.03	3.11	4.79			
Vashington	NA	NA	NA	NA	2.81	2.94	2.75	2.88			
Vest Virginia	2.89	2.93	2.84	2.91	2.72	2.81	2.49	2.78			
Visconsin	4.19	3.54	3.24	3.20	3.28	2.98	3.89	3.55			
Vyoming	NA	NA	3.34	3.38	3.35	3.24	3.40	3.40			

Table 23. Average Price of Natural Gas Sold to Industrial Consumers, by State, 1996-1998

_	19	97	1996							
State	February	January	Total	December	November	October	September	Augus		
llabama	3.91	4.57	3.64	4.61	3.72	3.14	2.94	3.50		
laska	1.57	1.55	1.41	1.35	1.35	1.35	1.35	1.45		
rizona	3.74	4.32	3.80	3.81	3.80	3.78	3.76	3.68		
rkansas	3.78	4.45	3.28	4.33	3.72	3.00	3.07	3.09		
alifornia	5.32	5.49	3.77	4.40	4.01	3.32	3.57	3.55		
colorado	NA	NA	2.91	1.01	0.94	2.13	0.46	0.27		
Connecticut	5.76	6.11	4.80	5.81	4.95	4.00	3.98	3.83		
elaware	5.03	5.29	4.32	5.00	4.62	4.62	4.58	4.71		
District of Columbia	_	_	_	_	_	_	_			
lorida	4.68	4.69	4.21	4.52	4.29	3.96	3.87	4.08		
`oorgio	F 62	6.40	4.40	4 07	2.76	4.16	2.72	4.00		
eorgiaawaii	5.63	6.40	4.40 —	4.87 —	3.76	4.16 —	2.73	4.08		
daho ^a	2.76	2.78	2.78	2.42	2.51	2.76	2.75	2.74		
linois	5.86	6.49	4.12	4.15	4.09	4.17	5.04	4.98		
ndiana	4.21	4.19	3.62	4.16	3.52	3.52	3.91	3.99		
owa	4.73	3.94	3.63	3.96	3.82	3.46	3.95	3.57		
ansas	3.45	4.33	3.09	4.85	3.37	2.44	3.04	3.21		
Centucky	4.67	4.78	3.87	4.64	3.92	3.73	3.65	3.97		
ouisiana	3.49	4.19	2.84	4.07	3.05	2.22	2.08	2.36		
Maine	7.10	6.95	5.22	6.60	6.56	4.04	3.96	3.96		
laryland	NA	5.31	5.36	4.63	6.00	7.80	6.18	7.39		
lassachusetts	8.35	^R 7.49	5.37	6.98	5.52	4.15	3.75	3.71		
lichigan	4.02	4.16	3.87	4.06	3.97	3.74	3.30	3.47		
	3.73	4.69	2.97			2.12	2.35	2.99		
finnesotafinnesota	3.80	4.45	3.43	4.18 4.47	3.09 3.59	2.12	2.85	3.20		
lissouri	5.94	5.35	4.35	4.84	4.02	3.75	4.12	4.27		
Nontana	4.80	4.79	4.88	4.87	4.95	5.02	5.04	5.16		
lebraska	4.14	5.13	3.29	4.30	3.62	2.71	2.86	3.42		
levada	4.64	9.50	4.90	4.67	4.68	5.01	5.10	5.15		
lew Hampshire	7.97	7.94	4.79	6.84	5.13	7.64	3.48	3.34		
lew Jersey	5.03	4.92	3.82	4.62	3.70	3.05	3.01	3.29		
lew Mexico	4.02	3.01	2.90	2.63	2.78	2.98	3.57	3.44		
lew York	^R 5.72	^R 5.93	5.04	5.17	4.79	4.45	4.16	4.66		
lorth Carolina	5.41	5.63	4.37	5.14	4.65	4.05	4.03	3.82		
lorth Dakota	4.94	4.39	3.02	3.89	2.36	2.28	2.77	2.99		
Phio	6.71	5.77	4.10	2.79	5.14	4.84	4.51	4.75		
klahoma	4.53	5.41	3.26	3.87	3.33	3.28	3.57	3.30		
regon	3.24	3.25	3.24	3.29	3.36	3.52	3.17	3.21		
ennsylvania	5.25	5.25	4.12	3.87	4.15	3.97	3.94	3.90		
Rhode Island	5.52	5.64	4.67	9.64	4.62	3.70	3.84	3.82		
outh Carolina	4.22	4.74	3.77	4.58	4.03	3.29	3.30	3.43		
outh Dakota	4.00	4.99	3.50	6.16	4.81	4.73	5.36	5.26		
ennessee	4.75	4.80	3.92	4.52	3.95	3.52	3.80	4.11		
exas			2.58	3.82	2.89	2.06	2.11	2.53		
tah	3.19 2.53	4.10 2.44	2.58	2.28	2.89	2.06 1.97	2.11	2.53		
ermont	3.14	3.32	3.44	3.18	3.20	3.44	3.17	3.31		
'irginia	5.51	3.56	4.07	3.91	3.53	4.14	4.10	4.32		
Vashington	3.58	4.36	2.67	3.81	2.78	2.52	1.93	3.84		
Vest Virginia	3.03	3.44	2.76	2.96	3.06	2.70	2.78	2.41		
Visconsin	4.41	5.06	3.48	4.79	4.10	2.67	2.74	3.05		
Vyoming	3.41	3.40	3.14	3.25	3.32	3.29	3.19	3.15		
Total	4.20	^R 4.62	3.42	4.20	2 57	2.89	2 77	3.05		
Total	4.20	4.02	3.42	4.20	3.57	2.09	2.77	ა.სე		

R = Revised Data.
NA = Not Available.

^{Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia. Average prices for gas delivered to industrial consumers reflect onsystem sales prices only. See Appendix A, Explanatory Note 5 for discussion of computations and revision policy. See Table 24 for data on onsystem sales expressed as a percentage of both total commercial and total industrial deliveries. In 1996, consumption of natural gas for agricultural use is classified as industrial use. In 1995 and earlier years, agricultural use was classified as commercial} use. See Explanatory Note 5 for further explanation.
Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet)

.	1998				1997			
State	January	Total	December	November	October	September	August	July
labama	2.86	2.76	2.90	3.70	3.75	2.88	2.56	2.51
llaska	1.85	1.74	1.84	1.84	1.85	1.88	1.69	1.87
rizona	2.84	2.99	2.86	4.00	3.11	3.37	2.63	2.20
rkansas	2.25	2.60	2.24	3.12	3.12	2.89	2.64	2.38
alifornia	2.94	3.07	2.96	3.64	3.40	3.14	2.81	2.69
olorado	3.01	3.21	2.93	3.90	2.37	2.42	2.77	4.07
onnecticut	2.74	2.55	2.74	3.38	2.76	2.37	2.35	2.33
elaware	5.34	3.15	4.28	2.58	5.69	3.40	3.00	2.83
istrict of Columbia	_	_	_	_	_	=	_	
lorida	2.25	3.20	3.19	4.06	4.05	3.41	2.97	2.94
eorgia	2.35	2.76	4.97	3.33	3.94	3.07	2.27	2.75
awaii	_	_	4.97 —	-	-	- -	2.21	
aho	_	_	_	_	_	_		_
inois	2.25	2.54	2.48	3.31	3.13	2.82	2.39	2.31
diana	3.84	3.27	3.67	4.03	5.25	3.67	3.39	2.77
wa	3.36	3.27	2.99	4.16	3.81	3.28	3.12	2.70
ansas	3.35	2.48	3.33	3.02	3.05	2.70	2.13	2.76
entucky	3.46	3.34	3.47	4.24	4.00	3.25	2.92	2.87
ouisianaaine	2.61 —	2.80	2.86 —	3.61 —	3.40	3.03	2.60	2.44
aryland	3.75	2.97	3.61	4.10	3.91	3.42	2.89	2.35
assachusetts	3.16	3.11	3.57	4.08	4.08	3.21	2.87	2.81
ichigan	0.51	0.79	0.47	1.08	1.59	0.73	0.58	0.96
innesota	2.63	2.54	2.99	3.72	3.67	3.56	2.43	2.43
ississippi	2.48	2.75	2.80	3.51	3.35	3.02	2.61	2.46
issouri	2.63	2.67	2.77	3.52	3.35	2.94	2.51	2.39
lontana	4.61	7.62	4.18	6.84	2.98	64.31	1.92	1.37
ebraska	2.72	2.58	4.94	4.29	3.21	2.98	2.49	2.32
evada	2.41	2.17	2.16	2.80	2.64	2.39	2.02	1.98
ew Hampshire	_	2.71	_	_	_	2.85	2.55	2.74
ew Jersey	2.98	3.07	3.20	4.19	4.23	3.42	2.87	2.80
ew Mexico	2.43	2.64	2.55	3.02	3.05	2.82	2.47	2.46
ew York	3.00	2.89	3.38	3.83	3.39	2.89	2.60	2.58
orth Carolina	3.02	3.16	3.60	4.95	3.68	3.38	3.09	3.12
orth Dakota	_	3.81	_	_	_	_	_	4.00
hio	3.32	3.66	4.13	4.12	4.00	4.35	4.28	3.10
klahoma	4.47	2.97	2.89	4.05	3.46	3.20	2.48	2.37
regon	1.14	1.48	1.48	1.44	1.45	1.49	1.49	1.35
ennsylvaniahode Island	2.79 3.48	2.86 3.39	3.16 3.78	3.69 4.05	3.65 4.02	2.99 3.32	2.81 3.04	2.54 2.98
loue Island	3.40	3.39	3.76	4.03	4.02	3.32	3.04	2.90
outh Carolina	4.05	4.15	4.46	4.00	4.10	4.54	4.54	4.35
outh Dakota	_	_	<u> </u>	<u> </u>	_	_ _	<u> </u>	_
ennessee	- 2.40							
exas	2.49	2.70	2.74	3.33	3.15	2.85	2.50	2.39
ah	_	2.11	_	_	2.00	2.66	1.79	1.86
ermont	3.02	3.27	3.42	4.21	3.96	_	2.90	2.95
rginia	3.05	2.99	2.54	4.09	4.73	3.77	2.95	2.58
ashington	1.64	5.54	5.73	5.16	4.21	8.62	0.67	4.83
est Virginia	5.59	3.87	3.31	3.00	3.29	3.41	3.71	3.79
isconsin	2.90	3.04	2.92	4.11	3.94	3.09	2.85	3.12
/yoming	5.39	9.31	1.63	3.43	4.88	7.74	34.13	20.44
	2.64	2.81	2.85	3.48	3.30	2.99	2.58	2.49

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

_		1996						
State	June	Мау	April	March	February	January	Total	Decembe
Alabama	2.65	2.44	3.21	2.12	2.04	4.37	2.95	4.32
Naska	1.79	1.64	1.63	1.55	1.69	1.68	1.45	1.64
rizona	3.03	3.11	4.47	2.85	4.01	5.70	3.03	7.53
rkansas	2.40	1.92	1.98	1.60	1.92	4.18	2.52	3.88
California	2.75	2.60	2.63	3.04	4.14	4.67	2.75	4.55
Colorado	2.31	6.20	2.47	2.26	3.32	3.76	2.09	4.30
Connecticut	2.26	2.22	2.22	2.45	3.08	3.97	2.76	4.97
Delaware	1.95	3.68	2.53	2.61	2.90	4.87	3.13	4.06
District of Columbia	_	_	_	_	_	_		_
Florida	3.03	2.87	2.58	2.62	3.80	5.18	3.12	4.75
Seorgia	3.13	2.64	2.64	3.34	8.15	2.08	2.88	6.28
ławaii	_			_	_	_	_	_
daho	_	_	_	_	_	_		_
		2.29						
Ilinois	2.37		2.12	2.00	2.93	3.34	2.62	3.82
ndiana	2.99	3.06	2.88	2.74	3.74	5.04	3.48	4.80
owa	3.28	2.89	2.79	2.73	3.74	5.11	3.23	3.77
Cansas	2.11	2.14	2.00	1.80	2.92	4.56	2.25	4.10
Centucky	2.96	2.83	3.13	3.20	3.69	4.85	3.49	4.64
,	2.65	2.45	2.18	2.10			2.94	4.37
ouisiana Naine	2.00 —	2.45 —	2.10 —	2.10 —	2.93 —	4.35 —	Z.94 —	4.3 <i>1</i> —
Manufan d	2.60	2.00	2.14	4.10	E 7E	E 04	2 44	F 00
Maryland	2.69	2.98	3.14	4.18	5.75	5.04	3.11	5.92
Aassachusetts	2.92	2.84	2.54	2.64	3.29	5.37	3.07	4.85
⁄lichigan	0.84	0.42	0.61	0.69	0.59	0.56	0.74	0.55
Minnesota	2.34	2.30	2.34	2.17	3.35	2.26	2.18	2.32
Mississippi	2.52	2.37	2.27	2.08	2.61	4.15	2.78	4.27
Missouri	2.44	2.74	2.77	2.26	4.62	5.41	2.58	4.90
Montana	9.35	13.57	2.87	4.08	9.68	3.54	2.89	1.81
lebraska	2.00	1.89	1.89	2.29	3.20	3.22	2.07	4.37
Nevada	2.09	1.99	2.02	2.05	2.33	2.14	2.12	2.19
New Hampshire	2.72	2.68	_	_	_			_
lew Jersey	2.85	2.76	2.69	2.57	3.60	4.65	2.96	4.39
New Mexico	2.38	2.39	2.07	2.01	2.85	4.07	2.31	3.80
New York	2.65	2.62	2.53	2.56	3.35	4.36	2.96	4.22
lorth Carolina	2.87	2.64	2.79	_	_	6.89	3.11	4.41
North Dakota	_	4.14	3.98	2.93	_	_	2.93	2.81
Ohio	3.20	4.13	4.06	4.03	4.16	3.87	3.44	4.27
Oklahoma	2.63	2.91	2.57	2.88	4.36	4.21	2.98	4.43
Oregon	1.57	_		1.40	_	1.96	1.33	2.01
Pennsylvania	3.04	2.57	2.31	2.72	2.91	4.65	2.85	4.57
Rhode Island	3.21	3.09	2.82	2.90	4.09	3.18	2.29	3.14
South Carolina	3.51	3.84	3.87	2.84	4.22	6.95	4.56	5.08
	3.51 —	3.04	3.0 <i>1</i>	Z.04 —	4.22	6.95 —		5.06
South Dakota							2.36	
ennessee	_	_	_	_	_	_	2.61	_
exas	2.46	2.34	2.14	2.12	2.85	3.89	2.51	3.80
Itah	4.82	_	_	_	_	_	1.83	_
ermont		2.83	2.27	2.61	3.60	5.05	3.22	4.42
/irginia	2.93	3.05	2.71	2.76	1.80	3.13	2.98	3.42
Vashington	3.83	7.21	5.93	65.04	4.50	5.11	4.98	4.75
Vest Virginia	3.23	3.22	3.63	3.82	7.68	3.15	2.99	2.94
Visconsin	2.81	2.58	2.46	2.33	3.42	4.74	3.04	4.29
Vyoming	4.00	11.82	24.02	22.85	2.47	13.99	12.59	26.41

Table 24. Average Price of Natural Gas Delivered to Electric Utility^a Consumers, by State, 1996-1998

(Dollars per Thousand Cubic Feet) — Continued

Ctata				19:	96			
State	November	October	September	August	July	June	Мау	April
Jahanna	0.40	0.07	0.44	0.00	0.04	0.74	0.50	0.40
labama	3.16	2.27	2.14	2.66	3.04	2.71	2.59	3.10
laska	1.63	1.73	1.71	1.66	1.58	1.47	1.04	1.16
rizona	4.76	2.53	2.98	2.61	3.09	3.33	4.43	2.30
Arkansas	2.62	1.36	1.89	2.47	2.57	2.40	2.30	2.54
California	3.40	2.60	2.51	2.63	2.32	2.41	2.59	2.49
Colorado	2.93	2.47	1.54	1.72	2.32	1.52	1.85	2.06
Connecticut	3.26	2.78	2.30	2.78	3.01	2.69	2.62	2.79
Delaware	3.65	2.32	2.32	2.35	3.39	3.01	3.19	4.14
District of Columbia	_	_	_	_	_	_	_	_
Florida	3.38	2.56	2.59	2.99	3.28	3.09	2.91	3.18
Seorgia	2.50	3.08	2.72	2.51	2.23	3.25	3.80	5.05
lawaii	_	_		_	_	_	_	_
daho	_	_	_	_	_	_	_	_
linois	3.10	2.12	1.98	2.25	2.70	2.60	2.43	3.03
ndiana	3.86	3.38	2.99	2.95	3.14	3.32	3.21	3.40
owa	3.45	2.95	1.80	2.87	2.83	2.55	2.64	3.82
Kansas	2.62	1.88	1.81	2.35	2.19	2.16	2.13	2.45
Centucky	3.51	2.82	2.59	3.05	3.36	3.15	3.78	3.40
ouisiana	3.12	2.25	2.16	2.64	2.96	2.72	2.63	2.99
Maryland	4.02	2.65	2.85	2.49	3.25	3.12	3.13	3.97
Massachusetts	3.85	2.69	2.33	2.71	3.37	3.03	3.08	3.62
/lichigan	0.73	0.55	0.59	0.91	0.73	0.88	0.90	0.71
finnesota	2.19	2.14	2.14	2.10	2.14	2.09	2.36	2.63
Aississippi	3.23	2.10	2.00	2.52	2.85	2.64	2.49	2.95
Missouri	2.61	2.38	2.24	2.41	2.63	2.50	2.42	2.20
Montana	1.66	0.65	6.59	6.79	3.49	4.69	5.95	8.98
Nebraska	2.85	1.85	1.81	2.16	2.27	1.74	1.58	1.94
Nevada	2.37	2.71	1.96	2.20	1.83	2.06	1.90	2.08
New Hampshire	_	_	_	_	_	_	_	_
lavo lavaso	0.40	0.00	0.40	0.70	0.45	0.44	0.07	0.50
New Jersey	3.16	2.36	2.42	2.79	3.15	3.14	3.37	3.50
lew Mexico	2.94	2.17	1.94	2.33	2.01	1.99	2.04	2.17
New York	3.39	2.37	2.26	2.74	3.06	2.89	2.80	3.35
North Carolina	4.20	2.55	2.80	3.31	3.51	2.93	2.66	3.23
North Dakota	3.92	2.94	_	3.32	2.71	2.81	2.91	_
Ohio	3.92	2.96	2.80	2.70	3.18	3.51	2.99	3.48
Oklahoma	3.61	2.93	2.38	2.64	2.70	2.72	2.95	3.15
Dregon	1.42	1.42	1.27	1.24	1.25	_	_	_
Pennsylvania	3.31	2.70	1.67	2.63	3.52	2.74	3.38	2.64
Rhode Island	2.34	1.81	1.78	2.32	2.27	2.13	2.10	2.36
South Carolina	4.47	5.32	4.01	4.67	3.94	3.69	4.75	4.44
South Dakota		J.JZ	-1 .01	4.07	2.36	5.05	4.75	7.44
ennessee	1.20	_	_	_	2.30	_	_	_
	2.82	2.23	2.10	2.45	2.63	2.46	2.35	2.48
exasltah	2.82 —	2.23 —	1.50	2.45 1.67	2.63 1.57	2.39	2.35 —	Z.48 —
	0.5-	0.00						
/ermont	3.37	2.68	2.70	3.15	3.45	3.17	_	2.72
/irginia	2.04	3.77	2.93	2.83	3.36	3.14	3.61	1.51
Vashington	5.03	4.35	4.01	4.98	6.14	5.52	4.05	4.22
Vest Virginia	2.87	3.69	_	3.28	3.35	3.31	2.82	3.00
Visconsin	3.48	2.55	2.38	2.87	2.97	2.56	2.71	3.01
Vyoming	17.57	17.64	3.19	7.72	3.19	6.99	3.44	30.24

a Includes all steam electric utility generating plants with a combined capacity of 50 megawatts or greater.
 — = Not Applicable.
 Notes: Data for 1996 are final. All other data are preliminary unless otherwise indicated. Geographic coverage is the 50 States and the District of Columbia.

See Appendix A, Explanatory Note 5 for discussion of computations and revision policy.

Sources: Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998

	YT 19:		YT 199		YT 199		199	98
State	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Febr	uary
	Commercial	iliuustiiai	Commercial	ilidustriai	Commercial	iliuusillai	Commercial	Industrial
Alabama	78.3	18.7	78.7	18.6	86.4	26.0	80.1	17.8
Alaska	NA	100.0	68.6	97.5	76.2	62.5	NA	100.0
Arizona	87.0	30.1	87.6	22.2	89.8	22.6	87.2	27.7
Arkansas	95.4	10.7	96.3	13.2	96.7	15.5	95.3	10.9
California	56.2	9.9	58.2	11.4	59.7	11.8	54.3	8.7
Colorado	NA	NA	NA	NA	95.0	14.6	NA	NA
Connecticut	78.3	58.4	90.1	76.2	93.2	96.4	78.2	57.8
Delaware	100.0	27.4	100.0	31.3	100.0	58.0	100.0	28.6
District of Columbia	59.6	_	65.4	_	81.6	_	59.0	_
Florida	95.9	4.6	96.3	7.7	96.8	15.6	96.1	4.6
Georgia	89.5	16.6	93.2	20.6	97.9	43.3	90.3	16.7
Hawaii	100.0	-	100.0	_	100.0	-	100.0	_
Idaho	89.4	2.7	88.7	2.0	89.4	1.2	88.7	3.0
Illinois	52.3	10.3	58.5	12.2	57.6	18.4	50.4	9.8
Indiana	NA	NA	93.4	20.0	98.3	25.9	84.6	11.1
lowa	88.0	7.2	89.9	8.5	91.2	9.5	88.7	7.1
Kansas	72.2	5.1	75.3	10.3	83.9	6.8	73.1	5.3
Kentucky	88.3	14.4	91.5	20.8	93.0	38.7	86.5	17.2
Louisiana	67.2	5.7	92.9	9.0	98.2	10.6	60.9	6.1
Maine	100.0	97.9	100.0	100.0	100.0	100.0	100.0	97.9
Maryland	60.2	2.0	83.7	9.0	95.6	20.7	54.7	3.7
Massachusetts	NA .	19.8	67.3	22.9	84.1	32.5	NA	32.5
Michigan	67.5	9.8	69.3	10.4	72.9	14.4	65.2	12.6
Minnesota	92.5	41.0	98.6	41.4	97.5	39.6	93.3	37.4
Mississippi	NA	NA	96.6	37.9	98.1	43.3	94.8	38.5
Missouri	NA	NA	83.1	23.2	88.6	30.0	85.4	24.0
Montana	86.2	4.5	91.8	4.3	93.0	4.9	83.1	4.3
Nebraska	79.0	26.9	82.3	27.9	81.6	24.7	78.0	23.2
Nevada	78.4	2.4	78.4	3.0	79.8	2.1	79.8	15.3
New Hampshire	96.3	33.8	98.9	48.1	98.3	57.8	96.2	37.2
New Jersey	60.7	48.5	79.6	51.0	80.9	58.1	62.1	34.6
New Mexico	68.6	8.3	73.3	13.9	67.9	1.5	64.4	1.8
New York	NA	NA	66.0	7.4	NA	13.1	NA	NA
North Carolina	93.3	27.5	98.0	63.8	99.8	84.9	93.1	27.3
North Dakota	87.2	34.7	93.6	46.7	91.8	24.7	84.9	33.3
Ohio	60.4	4.5	70.6	7.1	76.7	11.6	60.2	4.7
Oklahoma	82.1	5.8	90.6	8.0	89.4	9.5	83.2	5.2
Oregon	99.3	15.1	98.8	18.4	98.6	26.5	99.2	15.3
Pennsylvania	58.0	15.7	69.5	16.9	78.0	23.4	57.2	15.2
Rhode Island	67.8	12.7	90.6	13.2	99.7	14.6	71.6	38.5
South Carolina	98.3	85.6	99.1	82.5	100.0	85.3	98.4	85.4
South Dakota	86.1	45.6	86.4	30.9	88.9	27.2	85.7	45.9
Tennessee	NA	NA	93.2	32.1	97.7	51.8	87.8	25.5
Texas	58.7	NA	66.5	18.2	88.2	21.9	50.7	NA
Utah	87.4	8.1	86.7	10.5	84.8	9.4	89.1	8.5
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	75.5	16.5	84.7	14.2	95.6	21.8	76.7	14.6
Washington	NA	NA	87.3	26.8	89.4	32.8	85.7	21.0
West Virginia	39.5	8.6	67.8	14.6	63.6	18.5	29.9	14.9
Wisconsin		25.0 NA	88.2	36.8	94.3	44.9	80.3	23.8 NA
Wyoming	INA	IVA	83.7	1.7	97.8	3.0	80.3	MA
Total	70.7	15.8	77.3	18.6	83.2	22.3	68.7	16.0

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

	1998		1997							
State	Janı	ıary	Tot	al	Decei	mber	Nove	mber		
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial		
Alabama	76.7	19.4	^R 56.8	R18.4	75.3	21.8	61.7	20.2		
Alaska	59.9	100.0	^R 63.1	^R 97.8	61.7	100.0	59.4	100.0		
Arizona	86.9	32.3	^R 84.5	^R 26.5	85.2	33.8	83.2	32.0		
Arkansas	95.5	10.5	R93.9	R10.6	95.7	10.5	89.9	11.2		
California	58.1	11.0	^R 50.2	^R 9.8	54.4	9.9	49.1	7.9		
Colorado	NA	NA	NA	NA	02.0	04.0	NA	NA		
Colorado			NA		93.9	24.8				
Connecticut	78.4	61.0		R65.4	76.9	62.9	83.1	55.7		
Delaware	100.0	26.4	R100.0	R29.7	R100.0	25.8	100.0	26.3		
District of Columbia	60.2	_	R58.5	NA NA	60.8	_	60.4	_		
Florida	95.8	4.9	^R 96.6	NA.	94.7	5.1	95.2	5.0		
Georgia	88.7	16.5	R88.0	R16.9	90.6	22.7	87.3	18.3		
Hawaii	100.0	_	NA NA	_	100.0		NA	_		
Idaho	90.0	2.5	^R 86.1	R2.2	86.6	2.0	83.2	1.9		
Illinois	53.7	10.7	R53.3	R9.9	51.1	10.7	51.5	8.2		
Indiana	NA	NA	NA NA	NA NA	NA NA	NA	91.5	19.2		
lowa	87.4	7.4	R87.2	^R 7.7	88.8	.8.4	84.3	12.0		
Kansas	71.5	5.0	NA	NA	NA	NA	56.7	5.7		
Kentucky	90.0	12.3	NA	NA	90.6	14.2	89.2	14.4		
Louisiana	^R 74.1	5.4	^R 93.3	^R 8.1	98.0	6.3	97.4	7.4		
Maine	100.0	97.9	R100.0	^R 91.4	100.0	89.7	100.0	92.2		
Maria Inc. I	05.0	0.7	Po 4 5	Po 4	04.4	0.0	07.4	44.7		
Maryland	65.6	0.7	R64.5	^R 6.1	61.1	0.9	37.4	41.7		
Massachusetts	64.3	30.3	^R 60.4	R18.7	66.2	31.6	60.0	32.2		
Michigan	69.5	13.5	^R 62.8	^R 6.4	64.7	11.8	63.9	9.3		
Minnesota	91.9	45.0	R98.5	R41.9	98.4	42.2	99.1	44.2		
Mississippi	NA	NA	NA	NA	94.4	38.3	93.3	35.4		
Missouri	NA	NA	NA	NA	82.7	22.9	78.3	19.9		
Montana	88.3	4.7	^R 90.8	R3.1	92.7	3.8	90.4	2.8		
Nebraska	79.9	30.1	^R 70.4	R22.3	74.1	20.4	68.9	34.2		
Nevada	77.3	7.2	R71.3	R1.8	72.6	6.9	67.9	5.9		
New Hampshire	96.4	30.4	NA NA	NA	94.0	32.4	89.1	34.2		
146W Hampsine	30.4	50.4			54.0	0Z.4	00.1	04.2		
New Jersey	59.4	31.7	^R 66.1	R48.8	62.6	32.9	58.9	32.2		
New Mexico	71.5	8.3	^R 66.9	R14.2	75.5	16.3	70.9	14.1		
New York	NA	NA	^R 56.7	^R 6.3	^R 59.8	R8.3	^R 56.6	^R 7.7		
North Carolina	93.4	27.6	^R 94.1	R40.4	95.5	30.7	99.4	78.1		
North Dakota	89.1	36.1	R88.2	R39.5	84.8	37.3	90.8	35.6		
			B	D						
Ohio	60.5	4.5	R64.7	R4.0	66.3	5.1	66.5	4.2		
Oklahoma	81.1	6.3	^R 85.1	^R 4.6	85.5	5.4	78.5	4.3		
Oregon	99.3	19.7	R98.5	R15.7	98.4	14.5	98.4	13.4		
Pennsylvania	58.7	16.3	^R 62.1	^R 13.8	62.4	12.3	61.9	13.9		
Rhode Island	64.5	39.7	R80.5	R17.4	64.0	36.0	80.7	41.2		
South Carolina	98.1	85.8	^R 98.1	^R 80.6	97.6	81.5	100.0	86.6		
South Dakota		65.6 45.2	^R 83.3	R24.0	86.1	34.2	84.0	37.5		
	6.00 AN	45.∠ NA	NA	NA						
Tennessee				NA	90.8	24.2	92.5 ^R 61.5	38.9		
Texas	68.3	13.9	R59.7		^R 66.3	12.9		12.1		
Utah	85.7	7.8	^R 83.2	^R 9.2	86.1	8.5	83.1	9.8		
Vermont	100.0	100.0	R100.0	R100.0	100.0	100.0	100.0	100.0		
Virginia	74.4	18.7	^R 76.9	R12.5	76.7	14.4	88.7	21.2		
Washington	NA .	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA.		
West Virginia	56.0	6.3	^R 51.3	R12.1	55.6	11.1	50.3	13.8		
Wisconsin			^R 80.8	R28.5						
Wyoming	A1.4	26.0 NA	NA	NA	82.1 92.7	27.9 1.9	84.7 79.4	28.9 1.3		
,					02.1	1.5	7.5.4	1.0		

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

				19	997			
State	Octo	ber	Septe	mber	Aug	ust	Ju	ly
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
								.=.
Alabama	42.8	18.2	33.1	17.6	25.1	17.4	22.8	17.3
Alaska	60.1	100.0	59.0	100.0	54.2	92.8	59.5	91.4
Arizona	81.1	31.0	83.9	30.3	78.7	30.1	79.7	31.3
Arkansas	92.2	10.0	90.9	8.7	91.4	7.9	89.9	9.3
California	41.6	6.1	40.9	9.9	41.5	7.7	45.6	7.8
Colorado	NA	NA	NA	NA	NA	NA	NA	NA
Connecticut	NA	66.5	74.9	65.5	80.1	62.1	72.8	63.5
Delaware	100.0	29.0	100.0	25.7	100.0	27.5	100.0	27.5
District of Columbia	44.5	_	35.5	_	38.8	_	43.9	
Florida	96.7	5.4	96.9	NA	97.3	6.1	96.9	5.7
Coordia	84.5	20.6	81.6	9.1	80.1	15.7	79.1	17.4
Georgia		20.6	100.0	9.1	100.0	15.7	79.1 100.0	17.4
Hawaii	100.0							
Idaho	76.4	1.6	82.5	1.7	82.9	1.4	83.2	5.2
Illinois	49.1	7.1	46.7	10.4	39.4	5.3	45.8	3.4
Indiana	87.4	12.2	75.4	8.4	74.7	7.8	72.4	9.0
lowa	79.4	10.3	77.2	5.9	84.5	6.5	75.0	5.3
Kansas	66.3	5.8	50.3	6.4	44.9	7.0	46.8	5.5
Kentucky	NA NA	NA.	83.9	13.0	79.1	11.5	82.9	12.4
Louisiana	98.4	7.0	98.1	7.1	99.2	8.0	98.8	7.9
Maine	100.0	89.4	100.0	87.8	100.0	88.6	100.0	100.0
	50.5		40.0	2.0	540	4.0		2.4
Maryland	50.5	5.5	49.0	2.0	54.3	4.9	57.5	3.4
Massachusetts	46.0	25.9	41.4	28.0	39.1	22.4	43.6	23.6
Michigan	53.3	4.2	38.8	3.1	39.8	3.9	54.7	5.8
Minnesota Mississippi	98.6 89.5	40.2 37.5	97.7 NA	41.9 NA	98.3 NA	37.0 NA	98.4 NA	47.2 NA
Mississibhi								
Missouri	NA	NA	68.4	22.5	68.7	16.7	68.9	18.6
Montana	87.9	2.3	85.5	1.9	87.4	2.0	90.4	1.7
Nebraska	46.6	17.4	59.0	21.0	64.8	14.4	64.4	34.1
Nevada	65.9	5.5	62.9	4.6	63.1	7.0	73.2	10.2
New Hampshire	85.7	44.2	NA	NA	88.1	47.1	87.0	51.4
Now Jorgon	57 7	27.7	EQ 1	20.1	59.0	44.0	55.6	26.5
New Jersey	57.7 57.2		58.1	28.1		44.0	55.6	26.5 19.5
New Mexico	57.2	9.5 ^R 8.1	52.9	14.6 ^R 6.2	53.2 ^R 44.0	18.3	53.5 ^R 49.6	18.5 ^R 17.7
New York	R27.9		R49.8			R7.8		
North CarolinaNorth Dakota	98.2 84.0	68.8 26.1	86.4 74.7	21.2 19.4	84.4 68.8	24.2 28.1	84.6 46.5	20.4 45.7
NOITH Danota	04.0	20.1	14.1	13.7	00.0	20.1	40.5	40.1
Ohio	54.1	1.8	49.5	1.5	48.4	2.0	46.5	2.0
Oklahoma	75.7	3.1	75.5	3.2	73.6	3.0	79.0	3.8
Oregon	97.5	14.5	98.0	13.2	98.3	12.4	98.3	13.8
Pennsylvania	48.6	12.7	54.6	12.1	64.5	12.5	54.5	R10.8
Rhode Island	71.1	39.9	68.7	33.6	67.9	39.6	71.1	41.7
"	22.0	27.5	20.5	24.0	20.4	20.0	22.0	7.5
South Carolina	99.9	87.5	98.5	84.8	96.4	63.9	99.9	74.5
South Dakota	68.3	17.8	59.9	14.0	72.1	12.7	78.3	12.0
Tennessee	86.4	26.8	82.4	18.2 NA	80.4	19.8	80.7	24.4
Texas	59.4	13.9	47.0		52.3	14.1	50.6	14.2
Utah	80.2	9.2	74.8	12.0	71.7	7.9	72.8	8.2
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	68.1	13.5	67.6	7.4	64.6	4.9	62.9	5.5
Washington	NA NA	NA.	NA NA	NA .	NA NA	NA.	NA NA	NA.
West Virginia	35.6	13.2	29.8	11.8	21.6	11.2	23.2	11.8
Wisconsin	67.9	25.7	60.9	22.8	53.8	21.3	66.1	20.4
Wyoming	79.7	NA NA	NA NA	NA	75.8	21.3	28.8	20.4
, 3								
Total	^R 60.6	15.2	^R 58.1	13.8	56.6	13.8	^R 58.7	R14.8

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

				19	997			
State	Jur	ne	Ma	ny	Ар	ril	Mar	ch
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	49.5	17.2	55.5	18.0	59.3	17.3	76.2	17.9
Alaska	60.0	99.0	63.8	99.0	65.8	98.8	66.0	98.6
Arizona	82.7	18.7	86.1	18.1	83.8	21.2	86.5	22.8
Arkansas	90.7	10.2	91.4	11.3	93.5	10.9	94.9	12.1
California	48.2	8.9	49.5	13.0	51.6	10.6	54.5	11.0
Colorado	NA	NA	NA	NA	95.0	25.2	NA	NA
Connecticut	77.1	63.7	79.7	65.6	87.1	68.2	87.0	68.2
Delaware	100.0	28.2	100.0	34.4	100.0	35.6	100.0	32.7
District of Columbia	46.7		53.7		100.0	-	59.9	- JZ.1
Florida	97.6	6.8	97.7	6.4	97.8	7.0	97.0	6.7
Tiona	57.5	0.0	J	0.1	51.5	1.0	51.5	0.7
Georgia	82.7	13.4	83.9	12.9	87.2	15.9	88.9	15.7
Hawaii	100.0	_	100.0	_	100.0	_	100.0	_
Idaho	83.3	2.3	86.5	2.5	86.1	2.1	87.8	2.1
Illinois	54.8	14.7	47.4	13.8	53.1	8.4	54.4	10.3
Indiana	39.6	9.2	38.3	9.6	82.1	10.6	86.5	12.7
lowa	90.1	5.1	83.2	5.4	90.3	7.2	88.5	7.4
Kansas	56.1	5.1 4.9	58.3	5.4 13.9	90.3 66.1	7.2 12.6	60.1	7.4 11.4
						14.9		15.5
Kentucky	87.7	14.1	85.3	15.7	88.2		89.6	
Louisiana	98.6	8.3	98.5	9.0	98.1	7.6	71.7	10.7
Maine	100.0	88.5	100.0	91.2	100.0	91.3	100.0	91.8
Maryland	56.5	6.7	62.3	12.5	76.8	1.6	79.8	17.3
Massachusetts	46.1	32.3	67.1	41.7	72.2	38.5	70.9	34.4
Michigan	44.8	5.4	57.7	7.8	65.3	10.4	66.4	12.8
Minnesota	97.0	37.7	97.8	39.3	98.0	42.6	99.0	47.3
Mississippi	91.5	35.9	96.7	39.8	92.4	35.4	95.8	36.5
Missouri	71.5	18.5	76.9	24.1	80.7	16.7	83.9	27.3
Montana	88.7	2.2	90.2	2.1	91.1	4.5	90.4	4.1
Nebraska	61.4	17.1	68.2	21.4	72.3	19.0	70.8	21.8
Nevada	61.0	9.9	65.7	7.4 75.1	69.2	8.0	78.1	7.3
New Hampshire	90.7	55.4	91.6	75.1	92.0	62.3	94.0	53.6
New Jersey	60.8	26.3	56.5	28.5	64.0	36.9	68.5	30.3
New Mexico	43.1	8.1	59.5	10.9	58.1	2.8	70.5	3.9
New York	R49.9	^R 7.2	^R 54.9	R8.5	^R 60.6	^R 9.1	^R 63.4	R9.9
North Carolina	97.5	40.8	89.3	21.7	87.5	22.4	91.6	30.2
North Dakota	80.8	28.9	88.7	36.5	91.9	39.4	91.4	59.4
a	40.0	2.0	52.0	2.0	24.0	0.0	20.0	
Ohio	46.3	2.0	58.0	3.2	64.8	3.3	69.2	5.5
Oklahoma	79.2	2.1	82.0	4.1	86.3	3.7	88.1	5.9
Oregon	98.1	17.3	98.5	16.7	98.5	19.3	98.8	19.6
Pennsylvania	54.7	13.1	48.0	13.3	64.7	14.1	64.3	15.4
Rhode Island	72.4	48.1	80.8	48.5	88.5	55.8	82.2	61.7
South Carolina	91.0	89.0	100.0	87.0	95.8	77.7	97.4	80.3
South Dakota	83.7	10.7	80.7	17.3	85.7	22.6	86.3	26.7
Tennessee	NA NA	NA	86.7	29.6	90.4	28.1	NA NA	NA NA
Texas	56.6	19.1	56.5	18.1	59.2	20.1	^R 60.5	17.3
Utah	77.0	9.4	78.8	9.0	83.8	9.2	83.0	6.7
Vermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia	65.3	8.1	72.2	6.5	72.6	12.2	77.0	13.2
Washington	79.8	25.5	80.7	21.0	83.1	26.8	86.0	27.3
West Virginia	29.1	11.3	43.8	11.4	49.6	7.1	60.3	19.7
Wisconsin	58.8	19.9	75.5	27.6	81.8	25.6	87.4	34.0
Wyoming	52.1	1.9	77.8	1.8	62.1	1.9	74.0	1.8
vvyoning								

Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

		19	97			19	996	
State	Febru	uary	Janu	ıary	Tot	al	Decei	mber
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial
Alabama	79.7	19.5	77.7	17.7	81.1	22.6	80.7	22.4
Alaska	67.3	97.9	69.5	97.1	63.4	64.3	61.8	68.0
Arizona	87.8	24.7	87.4	19.9	85.2	19.7	84.1	19.9
Arkansas	96.6	13.6	96.1	12.9	95.0	13.3	95.7	13.8
California	58.5	11.3	58.0	11.3	54.9	11.2	56.1	9.9
Colorado	NA	NA	NA	NA	93.2	7.4	94.3	7.1
Connecticut	90.2	78.8	90.1	76.0	87.0	84.6	87.9	80.1
Delaware	100.0	34.0	100.0	28.8	100.0	37.3	100.0	30.8
District of Columbia	62.8	_	67.9	_	70.5	_	65.3	_
Florida	96.6	8.0	96.1	8.2	97.1	13.4	96.1	12.5
Tionaa	30.0	0.0	30.1	0.2	57.1	10.4	30.1	12.0
Georgia	92.7	21.1	93.7	20.0	94.1	32.2	93.2	31.6
Hawaii	100.0	_	100.0	_	100.0	_	100.0	_
Idaho	89.7	2.2	87.8	1.9	86.6	1.4	87.6	2.6
Illinois	54.3	9.8	62.0	14.6	53.9	13.7	56.1	22.5
Indiana	93.0	19.8	93.7	20.1	96.3	16.6	97.4	21.4
lowa	89.4	7.2	90.3	9.6	87.7	9.0	87.2	11.7
lowa								
Kansas	65.7	13.2	86.2	8.2	71.7	7.7	71.6	8.3
Kentucky	90.8	19.4	91.9	22.1	90.8	27.1	91.9	24.1
Louisiana	98.4	8.6	88.0	9.5	98.3	10.6	98.0	11.3
Maine	100.0	100.0	100.0	100.0	100.0	91.0	100.0	90.2
Maryland	82.8	14.7	84.5	2.8	91.9	11.7	93.2	19.7
Massachusetts	67.3	36.8	67.3	R34.3	74.7	41.9	68.9	33.8
Michigan	69.4	14.2	69.2	14.0	66.9	12.5	70.2	15.8
Minnesota	98.7	45.5	98.6	37.1	96.2	41.3	95.6	44.5
Mississippi	96.3	37.6	96.9	38.4	97.4	41.7	96.9	44.1
Missouri	79.9	19.5	86.3	28.3	82.2	24.7	84.6	33.1
	93.0				91.5			
Montana		4.1	90.9	4.4		3.4	92.7	4.3
Nebraska	87.9	27.0	77.6	28.9	70.0	20.4	76.6	23.5
Nevada	79.7	15.2	77.2	8.3	74.2	7.2	74.9	7.8
New Hampshire	99.1	52.1	98.8	44.2	96.9	55.4	96.1	45.4
New Jersey	93.5	36.0	70.6	35.9	73.3	53.6	70.2	35.5
New Mexico	72.5	2.1	74.0	19.4	64.7	3.5	71.8	13.3
New York	^R 65.8	R10.0	R66.3	R11.8	77.0	14.7	NA	13.1
North Carolina	95.9	39.6	100.0	90.1	96.5	59.4	99.0	91.6
North Dakota	93.9	49.5	93.4	43.3	88.0	26.5	91.0	43.9
Ohio	60 F	F. C	70.5	0.4	74.0	7.4	74.0	10.0
Ohio	68.5	5.6	72.5	8.4	71.8	7.4	74.0	10.0
Oklahoma	90.5	8.7	90.7	7.4	84.5	6.6	87.6	7.1
Oregon	98.9	20.2	98.8	17.0	98.3	18.0	98.6	16.0
Pennsylvania	69.8	14.9	69.3	18.9	70.4	18.5	61.0	22.3
Rhode Island	91.7	45.9	89.6	38.1	91.8	16.9	89.1	12.4
South Carolina	98.2	78.2	100.0	86.8	99.0	85.8	100.0	89.3
South Dakota	85.7	30.4	86.9	31.4	82.7	24.6	82.8	23.5
Tennessee	92.5	28.7	94.0	35.9	94.3	47.0	95.3	42.8
Texas	67.8	17.1	65.4	19.2	83.5	20.2	87.1	17.5
Utah	87.2	10.8	86.2	10.2	81.9	9.0	84.4	9.7
Vormant	100.0	100.0	400.0	400.0	100.0	100.0	100.0	100.0
Vermont		100.0	100.0	100.0	100.0	100.0	100.0	100.0
Virginia		6.8	87.5	15.5	85.3	18.0	88.1	22.1
Washington		26.8	87.8	26.7	85.9	24.4	87.4	27.2
West Virginia		14.8	67.8	14.4	56.3	14.3	71.3	14.4
Wisconsin	87.3	35.9	88.8	37.6	91.6	36.4	91.8	34.5
Wyoming	82.1	1.9	85.0	1.5	85.9	2.9	69.0	3.1

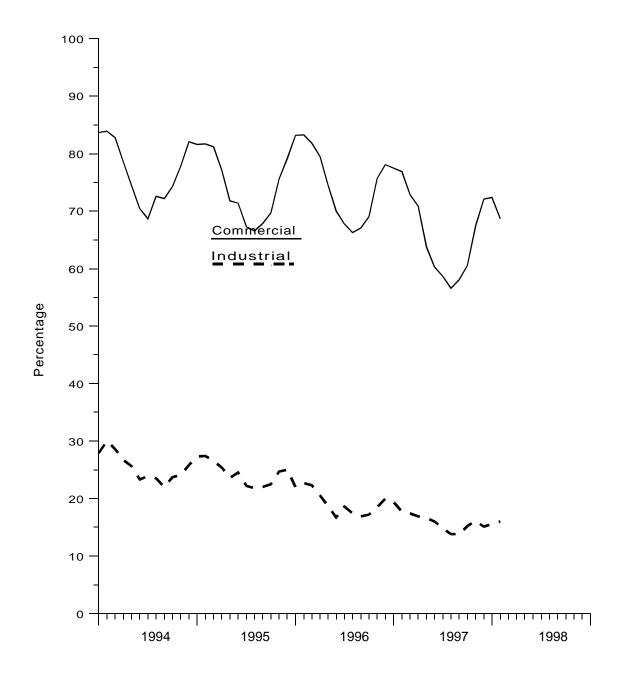
Table 25. Percentage of Total Deliveries Represented by Onsystem Sales, by State, 1996-1998 — Continued

				19	996			
State	Nove	mber	Octo	ber	Septe	mber	Aug	ust
	Commercial	Industrial	Commercial	Industrial	Commercial	Industrial	Commercial	Industria
Nabama	73.2	22.6	71.2	20.4	73.1	20.8	72.5	19.6
ılaska	58.2	71.3	54.2	64.8	50.7	67.0	53.1	60.9
rizona	84.1	18.2	83.2	16.8	83.5	16.7	78.5	18.0
rkansas	94.1	13.6	90.2	13.6	92.7	11.3	91.6	10.9
alifornia	57.9	10.8	44.1	9.3	45.3	9.9	44.7	9.0
olorado	92.8	8.3	89.1	9.7	90.6	9.2	87.1	8.3
onnecticut	84.0	74.8	81.3	71.9	68.9	71.2	77.6	78.0
elaware	100.0	32.5	100.0	30.7	100.0	27.6	100.0	26.2
istrict of Columbia	55.1	_	48.0	_	46.9	_	52.1	
lorida	97.0	11.1	97.4	12.2	97.6	10.1	97.2	11.0
eorgia	92.2	26.7	90.6	28.9	86.6	35.0	88.1	28.5
lawaii	100.0		100.0		100.0	_	100.0	
laho	84.9	0.5	77.3	1.7	80.0	1.3	81.9	1.8
inois	53.0	13.7	48.8	8.6	43.2	6.4	43.0	5.8
ndiana	96.1	16.3	91.5	11.7	86.8	9.2	86.8	9.4
owa	86.6	18.4	81.8	9.8	77.0	5.6	92.2	8.3
ansas	82.4	6.9	70.0	9.2	72.8	9.4	38.0	7.3
entucky	88.9	21.5	88.9	20.9	84.3	18.6	85.4	18.1
ouisiana	98.3	NA NA	98.6	NA NA	98.9	10.2	97.5	12.1
laine	100.0	91.5	100.0	91.3	100.0	89.1	100.0	88.0
laryland	92.2	2.1	87.3	3.7	87.0	1.6	85.0	3.7
lassachusetts	62.5	45.3	69.5	39.6	55.4	34.6	61.3	39.6
lichigan	67.2	12.7	55.8	8.1	44.6	5.5	41.3	6.0
linnesota	94.8	44.1	92.4	41.2	90.3	35.8	95.8	38.6
lississippi	96.7	44.8	96.0	39.1	97.2	40.0	97.9	41.5
lissouri	78.6	27.7	69.3	17.0	67.3	18.2	58.1	13.2
Montana	91.6	4.4	87.5	2.8	86.1	2.1	87.2	1.4
lebraska	68.6	23.3	40.3	15.2	66.2	17.0	54.1	17.2
levada	70.8	7.4	64.0	5.2	67.6	5.3	66.7	5.6
lew Hampshire	93.6	59.3	94.3	53.7	96.0	53.7	94.8	51.4
lew Jersey	69.4	52.7	67.2	48.2	61.8	53.2	60.0	57.8
lew Mexico	68.5 NA	4.8	63.5	2.6	61.3 NA	2.0	62.2 NA	3.8
ew York		11.4	NA	11.3		12.5		12.9
orth Carolina	92.0	49.7	85.7	26.7	86.1	24.7	88.5	34.7
lorth Dakota	89.7	49.6	79.9	36.2	69.1	21.1	74.5	8.7
hio	72.4	7.8	68.5	3.7	65.1	4.3	53.9	3.6
klahoma	82.1	7.6	73.0	4.7	72.7	4.8	69.0	5.4
Pregon	98.3	14.4	97.0	14.1	97.6	14.2	98.0	13.6
ennsylvania	63.3	16.6	59.7	13.5	66.3	13.8	66.2	14.8
hode Island	87.3	17.4	66.5	18.3	49.9	13.2	86.8	14.5
outh Carolina	97.4	85.8	96.4	83.4	97.3	84.5	97.3	84.7
outh Dakota	80.6	24.2	72.9	10.4	69.4	7.9	66.9	8.8
ennessee	92.8	40.6	87.3	45.0	80.8	36.2	88.4	40.4
exas	84.2	16.5	NA	20.2	77.9	19.4	81.1	21.8
tah	81.2	9.3	79.5	9.4	78.4	8.3	71.9	7.5
ermont	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
irginia	84.8	21.4	74.3	11.1	65.5	11.9	74.0	100.0
		21.4	74.3 82.7	19.8			80.1	12.0
VashingtonVashington	84.6 54.5	14.8	62.7 43.4		81.5	20.4	44.4	
	54.5			13.3	34.7	12.0		13.1
/isconsin/yoming	90.9 81.1	34.6 0.8	87.1 70.5	29.9 0.9	82.4 98.7	26.6 4.0	83.8 98.3	26.0 4.0
young	01.1	0.0	10.5	0.9	30.1	4.0	30.3	4.0

R = Revised Data.
NA = Not Available.
— = Not Applicable.
Notes: Volumes of natural gas reported for the commercial and industrial sectors in this publication include data for both sales and deliveries for the account of others. This table shows the percent of the total State volume that represents natural gas sales to the commercial and industrial sectors. This information may be helpful in evaluating commercial and industrial price data which are based on sales data only. See Appendix C, Statistical Considerations, for a discussion of the computation of natural gas prices.

Source: Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Figure 6. Percentage of Total Deliveries Represented by Onsystem Sales, 1994-1998



Sources: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" and Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Appendix A

Explanatory Notes

The Energy Information Administration (EIA) publishes monthly data for the supply and disposition of natural gas in the United States in the *Natural Gas Monthly* (NGM). The information in this Appendix is provided to assist users in evaluating the monthly data. There is a brief description of what data are estimated and what data are taken from submitted reports, followed by ten technical notes that provide important information for individual data series.

The monthly data are preliminary when initially published. Data shown in this report for the most current months are taken from the EIA Short-Term Integrated Forecasting System (STIFS) model computations. Each month, EIA staff review the STIFS model estimates and adjust them, if necessary, based on their knowledge of new developments in the natural gas industry. Data for prior months are estimated or taken from submitted reports.

Table A1. Methodology for Reporting Initial Monthly Natural Gas Supply and Disposition Data

Components	Reporting Methodology
Supply and Disposition	
Marketed Production	Reported on Form EIA-895 and Estimated from Historical Data
Extraction Loss	Derived from Marketed Production
Dry Production	Marketed Production minus Extraction Loss
Withdrawals from Storage	Reported on Form EIA-191
Supplemental Gaseous Fuels	Derived from Supply Estimates and Coal Gasification Information
Imports	Estimated from National Energy Board of Canada Information and Liquefied Natural Gas Information
Additions to Storage	Reported on Form EIA-191
Exports	Estimated from Industry Trends and Liquefied Natural Gas Information
Current-Month Consumption	Estimated from Historical Month-to-Month Percent Changes
Consumption by Sector	
Lease and Plant Fuel	Derived from Marketed Production
Pipeline Fuel	Derived from Estimates for Lease and Plant Fuel and Deliveries to Consumers
Residential	Estimated from Reports to the Sample Survey Form EIA-857
Commercial	Estimated from Reports to the Sample Survey Form EIA-857
Industrial	Estimated from Reports to the Sample Survey Form EIA-857
Electric Utilities	Reported on Form EIA-759

For data that are not taken from STIFS computations, Table A1 below lists the methodologies for deriving the monthly data to be published.

The STIFS model contains a series of calculations that produce forecasts for all of the energy industry. It is driven primarily by three sets of inputs or assumptions: estimates of key macroeconomic variables, world oil price assumptions, and assumptions about the severity of weather. The natural gas estimates also reflect other key inputs or assumptions including gas wellhead prices, electric power generation by other energy sources, and U.S. gas import capacity. The macroeconomic variable estimates are produced by DRI/McGraw-Hill but are adjusted by EIA to reflect EIA assumptions about the world price of oil, energy product prices, and other assumptions which may affect the macroeconomic outlook. The EIA publishes forecasts for the energy industry each quarter in the Short-Term Energy Outlook.

For production, total supply and disposition, and storage data (Tables I, 2, and 9), the most current two months shown are estimates produced from STIFS computations, and data that are two months or more prior to the date of publication are estimated or taken from submitted reports. For example, in the March issue of the NGM, February and March data are taken from the STIFS model computations while January and prior months data are estimated from available data sources or reported directly on EIA forms. For consumption data by sector (Table 3), the most current three months shown are estimates produced from STIFS computations while data that are three months prior to date of publication are taken from EIA forms.

Note 1. Nonhydrocarbon Gases Removed

Annual Data

Data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are reported by State agencies on the voluntary Form EIA-895. For 1995, of the 33 producing States, 22 reported data on nonhydrocarbon gases removed. The 22 States accounted for 60 percent of total 1995 gross withdrawals. Of the 22 States reporting nonhydrocarbon gases removed, 11 reported zero values: Alaska, Arizona, Arkansas, Colorado, Illinois, Maryland, Missouri, Nevada, New York, South Dakota, and Virginia. The ten States reporting

volumes greater than zero are Alabama, California, Florida, Kentucky, Mississippi, Nebraska, New Mex ico, North Dakota, Texas, and Wyoming. In addition, Kansas, Louisiana, Montana, and Oklahoma, which together accounted for 40 percent of gross withdrawals, did not report nonhydrocarbon gases removed separately. However, their gross withdrawal data excluded all or most of the nonhydrocarbon gases removed on leases. No estimates are made for States not reporting nonhydrocarbon gases removed.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Seven States report monthly data on nonhydrocarbon gases removed: Alabama, Arizona, Mississippi, New Mexico, North Dakota, Oregon and Texas. Monthly data for California, Colorado, Florida, and Wyoming are estimated based on annual data reported on Form EIA-895. Nonhydrocarbon gases as an annual percentage of gross withdrawals reported by each of the six States is applied to each State's monthly gross withdrawal data to produce an estimate of nonhydrocarbon gases removed.

Final Monthly Data

Beginning with report year 1990, States filing the Form EIA-627, "Annual Quantity and Value of Natural Gas Report," were asked to supply monthly breakdowns of all data previously reported on an annual basis. The sums of the reported figures were used to calculate monthly volumes. In 1997 the Form EIA-627 was discontinued. States were requested to file an annual schedule on the monthly Form EIA-895, "Monthly Quantity and Value of Natural Gas Report."

For States not supplying monthly data on the annual schedule of the EIA-895, final monthly data are calculated by proportionally allocating the differences between total annual data reported on the Form EIA-895 and the sum of monthly data (January-December).

Note 2. Supplemental Gaseous Fuels

Annual Data

Annual data are published from Form EIA-176.

Preliminary Monthly Data

All monthly data are considered preliminary until after the publication of the *Natural Gas Annual* for the year in which the report month falls. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the monthly sum of these three elements to compute a monthly supplemental gaseous fuels figure.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly data are estimated based on the revised annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. This ratio is applied to the revised monthly sum of these three elements to compute final monthly data.

Note 3. Production

Annual Data

Natural gas production data are collected from 33 gasproducing States on Form EIA-895 which includes gross withdrawals, vented and flared, repressuring, nonhydrocarbon gases removed, fuel used on leases, marketed production (wet), and extraction loss. The U.S. Minerals Management Service (MMS) also supplies data on the quantity and value of natural gas production on the Gulf of Mexico and Outer Continental Shelf. No adjustments are made to the data.

Estimated Monthly Data

State marketed production data for a particular month are estimated if data are unavailable at the time of publication. The data are estimated based on final monthly data reported on the Form EIA-895 for the previous year.

Estimates for total U.S. marketed production are based on final monthly data reported on the Form EIA-895 for the previous year. State estimates for nonhydrocarbon gas removed, gas used for repressuring, and gas vented and flared are based on the ratio of the item to gross withdrawals as reported on the EIA-895. These ratios are applied to the month's estimates for gross withdrawals to calculate figures for non-hydrocarbon gases removed, gas used for repressuring, and gas vented and flared. Estimates for gross withdrawal data are calculated from final monthly data filed on Form EIA-895 for the previous year.

Preliminary Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual* for the year in which the report month falls. Preliminary monthly data are published from reports from the Form EIA-895 and the MMS. Volumetric data are converted, as necessary, to a standard 14.73 psia pressure base. Data are revised as Table 7 monthly data are updated.

Final Monthly Data

Final monthly data for 1993, 1994, and 1995 are the sums of monthly data reported on the annual Form EIA-627, "Annual Quantity and Value of Natural Gas Report." For prior years, the differences between each State's annual production data reported on the EIA-627 and the sum of its monthly IOGCC reports for the year were allocated proportionally to the monthly IOGCC data.

Note 4. Imports and Exports

Annual Data and Final Monthly Data

Annual and final monthly data are published from the Office of Fossil Enery, U.S. Department of Energy, *Natural Gas Imports and Exports*, which requires data to be reported each quarter by month for the calendar year.

Preliminary Monthly Data - Imports

Preliminary monthly import data are based on data from the National Energy Board of Canada and responses to informal industry contacts and EIA estimates. Preliminary data are revised after the publication of the article "U.S. Imports and Exports of Natural Gas" for the calendar year.

Preliminary Monthly Data - Exports

Preliminary monthly export data are based on historical data from the Office of Fossil Energy, U.S. Department of Energy, *Natural Gas Imports and Exports*, informal industry contacts, and information gathered from natural gas industry trade publications. Preliminary monthly data are revised after publication of "U.S. Imports and Exports of Natural Gas" for the calendar year in which the report month falls.

Note 5. Consumption

All Annual Data

All consumption data except electric utility data are from the Form EIA-857 and Form EIA-176. No adjustments are made to the data. Electric utility data are reported on Form EIA-759.

Monthly Data

All monthly data are considered preliminary until after publication of the *Natural Gas Annual*.

Total Consumption

Preliminary Monthly Data

The most current month estimate is calculated based on the arithmetic average change from the previous month for the previous 3 years. The following month this estimate is revised by summing the components (pipeline fuel, lease and plant fuel, and deliveries to consumers).

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly total consumption is obtained by summing its components.

Residential, Commercial, and Industrial Sector Consumption

Preliminary Monthly Data

Preliminary monthly residential, commercial, and industrial data are from Form EIA-857. See Appendix C, "Statistical Considerations," for a detailed explanation off sample selection and estimation procedures.

Average Price of Deliveries to Consumers

Price data are representative of prices for gas sold and delivered to residential, commercial, and industrial consumers. These prices do not reflect average prices of natural gas transported to consumers for the account of third parties or "spot-market" prices.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual consumption data from the Form EIA-176 to each month in proportion to monthly volumes reported in Form EIA-857.

Agricultural Use

Beginning with the reporting of 1996 annual data, the EIA changed the customer category used for reporting deliveries to consumers in the agricultural industry from commercial to industrial. In 1995 and earlier years, consumption of natural gas for agricultural use was classified as commercial use. Separate reports of the volumes affected are not available so the direct impact of this change is not known. Most natural gas consumed in agriculture is used to drive irrigation systems and to dry crops.

For the reporting of monthly data, the customer category will not be changed until 1998. In 1996, the monthly data reported under the old classification were adjusted to the annual data reported under the new classification. Monthly 1997 data will be adjusted in the same way as the 1996 data.

In comparing sectoral use over time, note that:

- There is an inherent shift in natural gas volumes from the commercial to industrial sectors due simply to changes in the reporting requirements. This break in series may indicate a spurious increase in industrial consumption with a corresponding decrease in the commercial sector.
- The sum of natural gas volumes consumed by the commercial and industrial sectors will not be changed by this modification of the instructions.

Electric Utility Sector Consumption

All Monthly Data

Monthly data published are from Form EIA-759.

Pipeline Fuel Consumption

Preliminary Monthly Data

Preliminary data are estimated based on the pipeline fuel consumption as an annual percentage of total consumption from the previous year's Form EIA-176. This percentage is applied to each month's total consumption figure to compute the monthly estimate.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are based on the revised annual ratio of pipeline fuel consumption to total consumption from the Form EIA-176. This ratio is applied to each month's revised total consumption figure to compute final monthly pipeline fuel consumption estimates.

Lease and Plant Fuel Consumption

Preliminary Monthly Data

Preliminary monthly data are estimated based on lease and plant fuel consumption as an annual percentage of marketed production. This percentage is applied to each month's marketed production figure to compute estimated lease and plant fuel consumption.

Final Monthly Data

Monthly data are revised after publication of the *Natural Gas Annual*. Final monthly plant fuel data are based on a revised annual ratio of lease and plant fuel consumption to marketed production from Form EIA-176. This ratio is applied to each month's revised marketed production figure to compute final monthly plant fuel consumption estimates. Final monthly lease data are collected on the Form EIA-627 and estimates from the Form EIA-176. See the *Natural Gas Annual* for a complete discussion of this process.

Note 6. Extraction Loss

Annual Data

Extraction loss data are calculated from filings of Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." For a fuller discussion, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary data are estimated based on extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

Final Monthly Data

Monthly data are revised after the publication of the *Natural Gas Annual*. Final monthly data are estimated by allocating annual extraction loss data to each month based on its total natural gas marketed production.

Note 7. Natural Gas Storage

Underground Natural Gas Storage

All monthly data concerning underground storage are published from the EIA-191. A new EIA-191 became effective in January 1994. Injection and withdrawal data from the EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the *Natural Gas Annual*.

Underground and Liquefied Natural Gas Storage

The final monthly and annual storage and withdrawal data for 1991 through 1995 shown in Table 2 include both underground and liquefied natural gas (LNG) storage. Underground storage data are obtained from the EIA-191 and EIA-176 surveys in the manner described earlier. Annual data on LNG additions and withdrawals are taken from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying it to annual LNG data.

Types of Underground Storage Facilities

There are three principal types of underground storage facilities in operation in the United States today: salt caverns (caverns hollowed out in salt "bed" or "dome" formations), depleted fields (depleted reservoirs in oil and/or gas fields), and aquifer reservoirs (water-only reservoirs conditioned to hold natural gas). A storage facility's daily deliverability or withdrawal capability

is the amount of gas that can be withdrawn from it in a 24-hour period. Salt cavern storage facilities generally have high deliverability because all of the working gas in a given facility can be withdrawn in a relatively short period of time. (A typical salt cavern cycle is 10 days to deplete working gas, and 20 days to refill working gas.) By contrast, depleted field and aquifer reservoirs are designed and operated to withdraw all working gas over the course of an entire heating season (about 150 days). Further, while both traditional and salt cavern facilities can be switched from withdrawal to injection operations during the heating season, this is usually more quickly and easily done in salt cavern facilities, reflecting their greater operational flexibility.

Note 8. Average Wellhead Value

Annual Data

Form EIA-895 requests State agencies to report the quantity and value of marketed production. When complete data are unavailable, the form instructs the State agency to report the available value and the quantity of marketed production associated with this value. A number of States reported volumes of production and associated values for other than marketed production. In addition, information for several States which were unable to provide data was obtained from Form EIA-176. It should be noted that Form EIA-176 reports a fraction of State production. The imputed value of marketed production in each State is calculated by dividing the State's reported value by its associated production. This unit price is then applied to the quantity of the State's marketed production to derive the imputed value of marketed production.

Preliminary Monthly Data

A preliminary estimate of the U.S. gas price is made each month based on the change in the production-weighted gas price from five States: Kansas, Mississippi, New Mexico, Oklahoma, and Texas. Gas prices for these five States are used because both their gas production and value represent a substantial sample of the U.S. gas production and value (roughly 50 percent), and their prices are readily available and provide a consistent series. The latest preliminary U.S. gas price estimate is calculated by multiplying the preliminary U.S. gas price estimate for the prior month by the ratio of the five States' gas price for the latest month to that

of the prior month. This estimate replaces the initial gas price estimate.

Final Monthly Data

Preliminary monthly gas price data for Kansas, Mississippi, New Mexico, Oklahoma, and Texas are replaced by final monthly data that are adjusted to match the annual prices published in the *Natural Gas Annual* for each State. A revised set of the monthly U.S. gas price estimates are derived based on the monthly change in the production-weighted prices for these five States and adjusted to match the U.S. gas price published in the Natural Gas Annual.

Note 9. Balancing Item

The "balancing item" category represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems.

Reporting problems include differences due to the net result of conversions of flow data metered at varying temperatures and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycles and calendar periods; and imbalances resulting from the merger of data reporting systems, which vary in scope, format, definitions, and type of respondents.

Annual Data

Annual data are from the *Natural Gas Annual*. For an explanation of the methodology involved in calculating annual "balancing item" data, see the *Natural Gas Annual*.

Preliminary Monthly Data

Preliminary monthly data in the "balancing item" category are calculated by subtracting dry gas production, withdrawals from storage, supplemental gaseous fuels, and imports from total supply/disposition.

Note 10. Heating Degree-Days

Degree-days are relative measurements of outdoor air temperature. Heating degree-days are deviations of the mean daily temperature below 65 degrees Fahrenheit. A weather station recording a mean daily temperature of 40 degrees Fahrenheit would report 25 heating degree-days. There are several degree-day data bases maintained by the National Oceanic and Atmpospheric Administration. The information published in the

Natural Gas Monthly is developed by the National Weather Service Climate Analysis Center, Camp Springs, Maryland.

The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations arond the country. The temperature information recorded at these weather stations is used to calculate Statewide degree-day averages weighted by gas home cutomers. The State figures are then aggregated into Census Divisions and into the national average.

Appendix B

Data Sources

The data in this publication are taken from survey reports authorized by the U.S. Department of Energy (DOE), Energy Information Administration (EIA) and by the Federal Energy Regulatory Commission (FERC). The EIA is the independent statistical and analytical agency within the DOE. The FERC is an independent regulatory commission within the DOE which has jurisdiction primarily in the regulation of electric utilities and the interstate natural gas industry. The EIA conducts and processes some of the surveys authorized by the FERC. Data are collected from two annual surveys and four monthly surveys.

The annual reports are the Form EIA-176, a mandatory survey of all companies that deliver natural gas to consumers or that transport gas across State lines, and the Form EIA-627, a voluntary survey completed by energy or conservation agencies in the gas-producing States.

The monthly reports include two surveys of the natural gas industry and two surveys of the electric utility industry. The natural gas industry survey is the Form EIA-191 filed by companies that operate underground storage facilities, and the Form EIA-857 filed by a sample of companies that deliver natural gas to consumers. The electric utility industry surveys are the Form EIA-759 filed by all generating electric utilities and the Form FERC-423 filed by fossil fueled plants. Responses to these four monthly surveys are mandatory.

A description of the survey respondents, reporting requirements, and processing and editing of the data is given on the following pages for each of the surveys.

Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"

Survey Design

The original version of Form EIA-176 was approved in 1980 with a mandatory response requirement. Prior to 1980, published data were based on voluntary responses to Bureau of Mines, U.S. Department of the Interior predecessor Forms BOM-6-1340-A and BOM-6-1341-A of the same title.

In 1982, the scope of the revised EIA-176 survey was expanded to collect the number of electric utility consumers in each State, volumes of gas transported to industrial and electric utility consumers, detailed information on volumes transported across State borders by the respondent for others and for the responding company, and detailed information on other disposition. These changes were incorporated to provide more complete survey information with a minimal change in respondent burden. The 1982 version of the Form EIA-176 continues to be the basis for the current version of this form.

In 1988, the Form EIA-176 was revised to include data collection for deliveries of natural gas to commercial and industrial consumers for the account of others. A short version of Form EIA-176 was also approved in 1988. Companies engaged in purchase and delivery activities but not in transportation and storage activities may file the short form. Usually, these companies are municipals handling small volumes of gas.

In 1990, the Form EIA-176 was revised to include more detailed information for gas withdrawn from storage facilities, gas added to storage facilities, deliveries of company-owned natural gas and natural gas transported for the account of others. The revised form was approved for use beginning with report year 1990.

Upon the Office of Management and Budget's approval in 1993, the Form EIA-176 was again revised. All deliveries to consumers are now categorized as firm or interruptible. Commercial and industrial consumers are further categorized as nonutility power producers or as those excluding nonutility power producers.

Data reported on this form are no longer considered proprietary. Response to the form continues to be mandatory.

Survey Universe and Response Statistics

The Form EIA-176 is mailed to all identified interstate and intrastate natural gas pipeline companies, investor and municipally owned natural gas distributors, underground natural gas storage operators, synthetic natural gas plant operators, and field, well, or processing plant operators that deliver natural gas directly to consumers (including their own industrial facilities) and/or that transport gas to, across, or from a State border through field or gathering facilities.

Each company and its parent company or subsidiaries were required to file if they met the survey specifications. The original mailing in 1996 for report year 1995 totaled 1,991 questionnaire packages. To this original mailing, 11 names were added and 61 were deleted as a result of the survey processing. Additions were the result of comparisons of the mailing list to other survey mailing lists. Deletions resulted from post office returns and determinations that companies were out of business, sold, or not within the scope of the survey. After all updates, the survey universe was 1,941 responses from approximately 1,800 companies.

Following the original mailing, second request mailing, and nonrespondents followup, 1,911 responses were entered into the data base, and there were 30 nonrespondents.

Summary of Form EIA-176 Data Reporting Requirements

The EIA-176 is a multiline schedule for reporting all supplies of natural gas and supplemental gaseous fuels

and their disposition within the State indicated. Respondents file completed forms with EIA in Washington, DC. Data for the report year are due by April 1 of the following year. Extensions of the filing deadline for up to 45 days are granted to any respondent on request.

All natural gas and supplemental gaseous fuels volumes are reported on a physical custody basis in thousand cubic feet (Mcf), and dollar values are reported to the nearest whole dollar. All volumes are reported at 14.73 pounds per square inch absolute pressure (psia) and 60 degrees Fahrenheit.

Routine Form EIA-176 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-176. The edits performed include validity, arithmetic, and analytical checks.

The incoming forms are reviewed prior to keying. This prescan determines if the respondent identification (ID) number and the company name and address are correct, if the data on the form appear complete and reasonable, and if the certifying information is complete.

Manual checks on the data are also made. Each form is prescanned to determine that data were reported on the correct lines. The flow of gas through interstate pipelines is checked at the company level to ensure that each delivery from a State is matched with a corresponding receipt in an adjoining State.

After the data are keyed, computer edit procedures are performed. Edit programs verify the report year, State code, and arithmetic totals. Further tests are made to ensure that all necessary data elements are present and that the data are reasonable and internally consistent. The computerized edit system produces error listings with messages for each failed edit test. When problems occur, respondents are contacted by telephone and required to file amended forms with corrected data.

Other EIA Publications Referencing Form EIA-176

Data from Form EIA-176 are also published in the *Natural Gas Annual.*

Form EIA-895, "Monthly Quantity of Natural Gas Report"

Survey Design

In 1996, an annual schedule was added to the Form EIA-895 to replace the Form EIA-627. Data collection on the Form EIA-895 began in January 1995. This form was designed to replace the Interstate Oil and Gas Compact Commission (IOGCC) form, "Monthly Report of Natural Gas Production." In 1994, the IOGCC decided to discontinue collection of their form. All gas producing States are requested to report on the Form EIA-895; a voluntary report. Data are reported by State agencies. The form was designed to provide a standard reporting system, to the extent possible, for the natural gas data reported by the States. Data are not considered proprietary.

Beginning with 1980, natural gas production data previously obtained on an informal basis from State conservation agencies were collected on Form EIA-627. This form was designed by EIA to collect annual natural gas production data from the appropriate State agencies under a standard data reporting system within the limits imposed by the diversity of data collection systems of the various producing States. The form was redesigned in 1990 to collect monthly breakdowns of all annual data elements. Data are not considered proprietary. It was also designed to avoid duplication of effort in collecting production and value data by producing States and to avoid an unnecessary respondent burden on gas and oil well operators. In 1993, value and associated volume of marketed production by month was added to the EIA-627. In 1996, the Form EIA-627 was discontinued. The information is collected on an annual schedule on the Form EIA-895.

Survey Universe and Response Statistics

Form EIA-895 is mailed to energy or conservation agencies in all 33 natural gas producing States. All producing States participate voluntarily in the EIA-895 survey by filing the completed form or by responding to telephone contacts.

Reports on State production are due 20 days after the end of the report month. (In most cases, the data are not available to the States until after this time period.

Therefore, States are requested to send the report within 80 days after the end of the report month.) The annual schedule of the Form EIA-895 is due with the December data report.

Summary of Data Requirements

The Form EIA-895 monthly schedule consists of nine questions on one page, and requires volumetric information on gross production (gas and oil wells individually), gas used for repressuring, gas vented and flared, nonhydrocarbon gases removed, natural gas used as fuel on leases, marketed production, value based marketed production and the value in dollar amount of the marketed production.

Form EIA-895 annual schedule collects data on the monthly and annual production volume of natural gas (including gross withdrawals from both gas and oil wells); volumes returned to formation for repressuring, pressure maintenance, and cycling; quantities vented and flared; quantities of nonhydrocarbon gases removed; quantities of fuel used on leases; marketed production; the value of marketed production; and the number of producing gas wells.

Respondents are asked to report all volumes in thousand cubic feet at the State's standard pressure base and at 60 degrees Fahrenheit. All dollar values are reported in thousands.

Routine Form EIA-895 Edit Checks

Each filing of Form EIA-895 is manually checked for reasonableness and mathematical accuracy. Information on the forms is compared to totals of monthly data reported. Volumes are converted, as necessary, to a standard 14.73 psia pressure base. Reasonableness of data is assessed by comparing reported data to the previous year's data. State agencies are contacted by telephone to correct errors. Amended filings or resubmissions are not a requirement, since participation in the survey is voluntary.

Other EIA Publications Referencing Form EIA-895

Data from Form EIA-895 are also published in the EIA publication, *Natural Gas Annual*.

EIA-191 Survey, "Underground Natural Gas Storage Report"

Survey Design

The Form EIA-191, "Underground Natural Gas Storage Report," was revised effective January 1994. Among the changes from the form used from 1991 through 1993 are a distinction between a monthly and annual survey. Prior to 1991, data on the storage of natural gas were collected on a survey jointly implemented in 1975 by the Federal Power Commission (FPC), the Federal Energy Administration (FEA), and the Bureau of Mines (BOM) as the FPC-8/FEA-G-318 system. The data received on both the FPC-8 and FEA-G-318 were computerized and aggregated by FPC. The form was previously revised in 1991 to include storage data by State, field, and reservoir.

At the beginning of 1979, the EIA assumed responsibility for the collection, processing, and publication of the data gathered in the survey. Form FEA-G-318 was renewed on July 1, 1979, as Form EIA-191 and the survey was retitled the FPC-8/EIA-191 Survey (Figure D4 shows the EIA-191). Form FPC-8 was renewed in December 1985 and the survey retitled FERC-8/EIA-191 Survey. The forms were not merged because of FERC's stated desire to maintain the separate identity of the FERC-8 for administrative reasons. In September 1995, the FERC discontinued the reporting requirements of Form FERC-8. FERC jurisdictional firms will continue to file Form EIA-191.

Survey Universe and Response Statistics

The 103 companies that operate underground facilities will file the Form EIA-191. Of these companies, 42 are subject to the jurisdiction of FERC and are required to report data on Form EIA-191.

The response rate as of the filing deadline is approximately 20 percent. Data from the remaining 80 percent of respondents are received in writing and/or by telephone within 3 to 4 days after the filing deadline. All data supplied by telephone are subsequently filed in writing, generally within 15 days of the filing deadline. The final response rate is 100 percent.

Summary of EIA-191 Data Reporting Requirements

The EIA-191 monthly schedule contains current month and prior month's data on the total quantities of gas in storage, injections and withdrawals, the location (including State and county, field, reservoir) and peak day

withdrawals during the reporting period. Prior month's data are required only when data are revised. Information on co-owners of storage fields has been eliminated. The annual schedule contains type of facility, storage field capacity, maximum deliverability and pipelines to which each field is connected. The annual schedule is filed with the January submission.

Collection of the survey is on a custody basis. Information requested must be provided within 20 days after the first day of each month. Twelve reports are required per calendar year. Respondents are required to indicate whether the data reported are actual or estimated. For most of the estimated filings, the actual data or necessary revisions are reflected in the prior month section of the monthly form. Actual data on natural gas injections and withdrawals from underground storage are based on metered quantities. Data on quantities of gas in storage and on storage capacity represent, in part, reservoir engineering evaluations. All volumes are reported at 14.73 psia and 60 degrees Fahrenheit.

Routine Form EIA-191 Edit Checks

Data received on Form EIA-191 are entered into the survey processing system. The survey's five principal data elements (total, base, working gas in storage, injections, and withdrawals) receive a preliminary visual edit to eliminate and correct obvious errors or omissions. Respondents are required to refile reports containing any inconsistencies or errors.

Other EIA Publications Referencing Form EIA-191

The EIA publication *Monthly Energy Review* and *Winter Fuels Report* contain data from the EIA-191 survey.

"Quarterly Natural Gas Import and Export Sales and Price Report"

Survey Design

The collection of data covering natural gas imports and exports was begun in 1973 by the Federal Power Commission (FPC). On October 1977, FPC ceased to exist and its data collection functions were transferred to the Federal Energy Regulatory Commission (FERC) within the Department of Energy (DOE). From 1979 to 1994, the Energy Information Administration (EIA) has had the responsibility for collecting Form FPC-14, "Annual Report for Importers and Exporters of Natural

Gas." Data are not considered proprietary. The Form FPC-14 was discontinued in 1995.

Beginning in 1995, import and export data are taken from the "Quarterly Natural Gas Import and Export Sales and Price Report." This report is prepared by the Office of Fossil Energy, U.S. Department of Energy, based on information submitted by all firms having authorization to import or export natural gas.

Survey Universe and Response Statistics

All companies are required, as a condition of their authorizations to import or export natural gas, to file quarterly reports with the Office of Fossil Energy. These data are collected as part of its regulatory responsibilities. The data are reported at a monthly level of detail. Data reported on the Form FPC-14 represented physical movements of natural gas. Data collected by the Office of Fossil Energy are reported on an equity (sales) basis. For 1994 and earlier years, comparisons of the data from the two sources may show differences because reporting requirements were different.

Prior to 1995, the Form FPC-14 was filed annually by each organization or individual having authority to import and export natural gas regardless of whether any activity took place during the reporting year. Authorizations to import and export was originally granted by the FPC. In 1977, the authority to grant authorizations transferred to the Economic Regulatory Administration (ERA). It now resides with the Office of Fossil Energy, U.S. Department of Energy.

Routine Edit Checks

Respondents are required to certify the accuracy of all data reported. The data are checked for reasonableness and accuracy. If errors are found, the companies are required to file corrected data. The data are compared with data reported by the National Energy Board of Canada and are published quarterly. All natural gas volumes in this report are expressed at a pressure base of 14.73 pounds per square inch absolute and temperature of 60 degrees Fahrenheit, except as noted. All import and export prices are in U.S. dollars and, except for LNG exports, are those paid at the U.S. border. LNG export prices are those paid at the point of sale and delivery in Yokohama, Japan.

Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"

Survey Design

The original Form EIA-857 was approved for use in December 1984. Response to the Form EIA-857 is mandatory on a monthly basis. Data collected on the Form EIA-857 cover the 50 States and the District of Columbia and include both price and volume data. Data are considered proprietary.

Survey Universe and Response Statistics

A sample of 382 natural gas companies, including interstate pipelines, intrastate pipelines, and local distribution companies, report to the survey. The sample was selected independently for each of the 50 States and the District of Columbia from a frame consisting of all respondents to Form EIA-176 who reported deliveries of natural gas to consumers in the residential, commercial, or industrial sectors. Each selected company is required to complete and file the Form EIA-857 on a monthly basis. Initial response statistics on a monthly basis are as follows: responses received by due date, approximately 50 percent, and responses received after follow-up, 100 percent. Virtually all are received in time for incorporation in the current month's processing cycle. When a response is extremely late, and the company represents less than 25 percent of the natural gas volumes delivered by all sampled companies in the State, values are imputed as described in Appendix C. When the company's submission is eventually received, the submitted data are used for future processing and revisions.

The Form EIA-857 is a monthly sample survey of firms delivering natural gas to consumers. It provides data that are used to estimate monthly sales of natural gas (volume and price) by State and monthly deliveries of natural gas on behalf of others (volume) by State to three consumer sectors - residential, commercial, and industrial. (Monthly deliveries and prices of natural gas to electric utilities are reported on the Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," and the Form EIA-759, "Monthly Power Plant Report.") See Appendix C for a discussion of the sample design and estimation procedures.

Summary of Form EIA-857 Data Reporting Requirements

Data collected monthly on the Form EIA-857 on a State level include the volume and cost of purchased gas, the volume and cost of natural gas consumed by sector (residential, commercial, and industrial), and the average heat content of all gas consumed. Respondents file completed forms with EIA in Washington, DC on or before the 30th day after the end of the report month.

All natural gas volumes are reported in thousand cubic feet at 14.73 psia at 60 degrees Fahrenheit and dollar values are reported to the nearest whole dollar.

Routine Form EIA-857 Edit Checks

A series of manual and computerized edit checks are used to screen the Form EIA-857. The edits performed include validity and analytical checks.

Appendix C

Statistical Considerations

The monthly sales (volume and price) and monthly deliveries (volume) of natural gas to residential, commercial and industrial consumers presented in this report by State are estimated from data reported on the Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." (See Appendix B for a description of this Form.) These estimations must be made from the reported data since the Form EIA-857 is a sample survey. A description of the sample design and the estimation procedures is given below.

Sample Design

The Form EIA-857 is a monthly sample survey of companies delivering natural gas to consumers. It includes inter- and intrastate companies, and producers, as well as local distribution companies. The survey provides data that are used each month to estimate the volume of natural gas delivered and the price for onsystem sales of natural gas by State to three consumer sectors-residential, commercial, and industrial. Monthly deliveries and prices of natural gas to electric utilities are reported on the Form EIA-759, "Monthly Power Plant Report," and the Form FERC-423, "Monthly Report of Costs and Quality of Fuels for Electric Plants."

Sample Universe. The sample currently in use was selected from a universe of 1,538 companies. These companies were respondents to the Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," for reporting year 1995 who reported sales or deliveries to consumers in the residential, commercial or industrial sectors. (See Appendix B for a description of the Form EIA-176.)

Sampling Plan. The goal was a sample that would provide estimates of monthly natural gas consumption by the three consuming sectors within each State and the District of Columbia. A stratified sample using a single stage and systematic selection with probability

proportional to size was designed. The measure of size was the volume of natural gas physically delivered in the State to the three consuming sectors by the company in 1995. There were two strata--companies selected with certainty and companies selected under the systematic probability proportional to size design.

Initial calculations showed that a 25 percent sample of companies would yield reasonably accurate estimates. The sample was selected independently in each State, resulting in a national total of 387 respondent companies. Unlike previous years, no mergers or acquisitions were uncovered as a result of the initial mail-out. Therefore there was no need for either substitution of respondent companies or a reduction in the total number of respondents.

Certainty Stratum. Since estimates were needed for each of the 50 States and the District of Columbia, the strata were established independently within each State. In 16 States and the District of Columbia where sampling was not feasible due to small numbers of companies and/or small volumes of gas deliveries, all companies were selected. The 16 States were: Alaska, Connecticut, Delaware, Hawaii, Idaho, Maine, North Dakota, New Hampshire, New Jersey, Nevada, Oregon, Rhode Island, South Dakota, Utah, Vermont, and Washington.

For each of the remaining States, the total volumes of industrial sales and deliveries and of the combined residential/commercial sales and deliveries were determined. Companies with natural gas deliveries to the industrial sector or to the combined residential/commercial sector above a certain level were se lected with certainty. Since a few large companies often account for most of the natural gas delivered within a State, this ensures those companies' inclusion in the sample. The formula for determining certainty was applied independently in the two consumer sectors—the industrial and the combined residential/com mercial. These selected companies, together with the companies in the jurisdictions discussed where sampling was not feasible, formed the certainty stratum.

All companies with natural gas deliveries in sector j greater than the cut-off value $(C_{,j})$ were included in the certainty stratum. The formula for $C_{,j}$ was:

$$C_{,j} = \frac{X_{,j}}{2n} \tag{1}$$

where:

 C_{i} = cutoff value for consumer sector j,

n = target sample size to be selected for the State, 25 percent of the companies in the State,

 X_{ij} = the annual volume of natural gas deliveries by company i to customers in consumer sector j,

 X_i = the sum within State of annual gas volumes for company i,

 $X_{.j}$ = the sum within State of annual gas volumes in consumer sector j,

X.. = the sum within State of annual gas volumes in all consumer sectors.

Noncertainty Stratum. All other companies formed the noncertainty stratum. They were systematically sampled with probability proportional to size. The measure of size for each company was the total volume of gas sales to all consumer sectors ($X_{i.}$). The number of companies to be selected from the noncertainty stratum was calculated for each State, with a minimum of 2

The formula for selecting the number of noncertainty stratum companies was:

$$m = n \frac{X2}{X..} \tag{2}$$

where:

m = the sample size for the noncertainty stratum within a State,

X2 = the sum within State of the X_i for all companies in the noncertainty stratum.

Companies were listed in ascending order according to their measure of size and then a cumulative measure of size in the stratum was calculated for each company. The cumulative measure of size was the sum of the measures of size for that company and all preceding companies on the list. An interval of width I for selecting the companies systematically was calculated using

 $(I = \frac{X2}{m})$. A uniform random number R was selected

between zero and I. The first sampled company was

the first company on the list to have a cumulative measure of size greater than R. The second company selected was the first company on the list to have a cumulative measure of size greater than R+I. R+I was increased again by I to determine the third company to be selected. This procedure was repeated until the entire sample was drawn.

Subgroups. In eight States, the noncertainty stratum was divided into subgroups to ensure that gas in each consumer sector could be estimated. The systematic sample with probability proportional to size design described above was applied independently in each subgroup. The methods for determining the subgroup sample size and calculating the subgroup interval for sample selection were the same as the methods described above for the noncertainty stratum, except that X2 was the sum within State of the $X_{i.}$ for only those companies in the subgroup.

These subgroups were defined only for the purpose of sample selection. They are:

California: companies handling only industrial gas and all other companies.

Iowa: companies handling industrial gas and companies delivering only to residential or commercial customers.

Louisiana: companies handling only industrial gas and all other companies, with the latter being further subdivided according to size. The larger group is comprised of all companies with total deliveries of at least 200 million cubic feet while the smaller group consists of companies with less than that volume of delivered gas (three subgroups).

Oklahoma: Companies delivering less than 500 million cubic feet of gas and those delivering more than that volume.

Texas: companies handling only residential/commercial gas, companies handling only industrial gas, and all other companies (three subgroups).

Estimation Procedures

Estimates of Volumes. A ratio estimator is applied to the volumes reported in each State by the sampled companies to estimate the total gas sales and deliveries for the State. Ratio estimators are calculated for each consumer sector—residential, commercial, and industrial—in each State where companies are sampled. The following annual data are taken from the most recent 1995 submissions of Form EIA-176:

The formula for calculating the ratio estimator (E_{vj}) for the volume of gas in consumer sector j is:

$$E_{\nu j} = \frac{Y_{,j}}{Y'_{,j}} \tag{3}$$

where:

 $Y_{,j}$ = the sum within State of annual gas volumes in consumer sector j for all companies,

 $Y'_{.j}$ = the sum within State of annual gas volumes in consumer sector j for those companies in the sample.

The ratio estimator is applied as follows:

$$V_j = y_{.j} \times E_{vj} \tag{4}$$

where:

 V_j = the State estimate of monthly gas volumes in consumer sector j,

 $y_{.j}$ = the sum within State of reported monthly gas volumes in consumer sector j.

Computation of Natural Gas Prices. The natural gas volumes that are included in the computation of prices represent only those volumes associated with natural gas sales.

The price of natural gas for a State within a sector is calculated as follows:

$$P_j = \frac{R_j}{V'_j}$$

where:

 P_j = the average price for gas sales within the State in consumer sector j,

 R_j = the reported revenue from natural gas sales within the State in consumer sector j,

 V_j = the reported volume of natural gas sales within the State in consumer sector j.

All average prices are weighted by their corresponding sales volume estimates when national average prices are computed.

The monthly average prices of natural gas are based on sales data only. Volumes of gas delivered for the account of others to these consumer sectors are not included in the State or national average prices.

Table 25 shows the percent of the total State volume that represents volumes from natural gas sales to the commercial and industrial sectors. This table may be helpful in evaluating commercial and industrial price data. Virtually all natural gas deliveries to the residential sector represent onsystem sales volumes only.

See the section on consumer price calculations in this Appendix for further price information.

Estimation for Nonrespondents. A volume for each consumer category is imputed for companies that fail to respond. The imputation is based on the previous month's value reported by the non-responding company and the change from the previous month to the current month in volumes reported by other companies in the State. The imputed volumes are included in the State totals. To estimate prices for non-respondents, the unit price (dollars per thousand cubic feet) reported by the company in the previous month is used.

The formula for imputing volumes of gas sales for nonrespondents was:

$$F_{t} = F_{t-1} \times \frac{y_{.jt}}{y_{.jt-1}}$$
 (5)

where:

 F_t = imputed gas volume for current month t,

 F_{t-1} = gas volume for the company for the previous month,

 y_{jt} = gas volume reported by companies in the State stratum for report month t,

 $y_{j}t-1$ = gas volume in the previous month for companies in the State stratum that reported in month t.

Final Revisions

values across the months.

Adjusting Monthly Data to Annual Data. After the annual data reported on the Form EIA-176 have been submitted, edited, and prepared for publication in the *Natural Gas Annual*, revisions are made to monthly data. The revisions are made to the volumes and prices of natural gas delivered to consumers that have appeared in the *Natural Gas Monthly* to match them to the annual values appearing in the *Natural Gas Annual*. The revised monthly estimates allocate the difference between the sum of monthly estimates and the annual

Before the final revisions are made, changes or additions to submitted data received after publication of the monthly estimate and not sufficiently large to require a revision to be published in the *Natural Gas Monthly*, are used to derive an updated estimate of monthly consumption and revenues for each State's residential, commercial, or industrial natural gas consumption.

reports according to the distribution of the estimated

For each State, two numbers are revised, the estimated consumption and the estimated price per thousand cubic feet.

The formula for revising the estimated consumption is:

$$V_{jm}^* = V_{jm} + \left[(V_{ja} - V'_{jm}) (\frac{V_{jm}}{V'_{jm}}) \right]$$
 (6)

where:

 V_{jm}^* = the final volume estimate for month m in consumer sector j,

 V_{jm} = the estimated volume for month m in consumer sector j,

 V_{ja} = the volume for the year reported on Form EIA-176.

 V'_{jm} = The annual sum of estimated monthly volumes.

The price is calculated as described above in the Estimation Procedures section, using the final revised consumption estimate and a revised revenue estimate. The formula for revising the estimated revenue is:

$$R_{jm}^* = R_{jm} + \left[(R_{ja} - R'_{jm}) (\frac{R_{jm}}{R'_{im}}) \right]$$
 (7)

where:

 R_{jm}^* = the final revenue estimate for month m in consumer sector j,

 R_{jm} = the estimated revenue for month m in consumer sector j,

 R_{ja} = the revenue for the year reported on Form EIA-176.

 R'_{jm} = The annual sum of estimated monthly revenues. Revision of Volumes and Prices for Deliveries to Electric Utilities. Revisions to monthly electric utilities data are published throughout the year as they become available.

Reliability of Monthly Data

The monthly data published in this report are subject to two sources of error - nonsampling error and sampling error. Nonsampling errors occur in the collection and processing of the data. See the discussion of the Form EIA-857 in Appendix B for a description of nonsampling errors for monthly data.

Sampling error may be defined as the difference between the results obtained from a sample and the results that a complete enumeration would provide. The standard error statistic is a measurement of sampling error.

Standard Errors. A standard error of an estimate is a statistical measure that indicates how the estimate from the sample compares to the result from a complete enumeration. Standard errors are calculated based on statistical theory that refers to all possible samples of the same size and design.

The standard errors for monthly natural gas volume estimates by State are given in Table C1. Ninety-five percent of the time, the volume that would have been obtained from a complete enumeration will lie in the range between the estimated volume minus two standard errors and the estimated volume plus two standard errors.

The standard error of the natural gas volume estimate is the square root of the variance of the estimate. The formula for calculating the variance of the volume estimate is:

$$V(\hat{Y}) = \sum_{h=1}^{H} \left[N_h^2 \frac{(1 - \frac{n_h}{N_h})}{n_h (n_h - 1)} \left(\sum_{i=1}^{H} (y_i - Tx_i)^2 \right) \right]$$
(8) where:

H =the total number of strata

 N_h = the total number of companies in stratum h

 n_h = the sample size in stratum h

 y_i = the reported monthly volume for company i

 x_i = the reported annual volume for company i

T = the ratio of the sum of the reported monthly volumes for sample companies to the sum of the reported annual volumes for the sample companies.

Table C-1. Standard Error for Natural Gas Deliveries and Price to Consumers by State, February 1998

State		Volu Million Cu			Dollars p	Price per Thousand Cu	ıbic Feet
Ciaic	Residential	Commercial	Industrial	Total	Residential	Commercial	Industria
llabama	1,032	269	2,968	3,154	0.50	0.33	1.26
laska	0	0	0	0	_	_	_
rizona	80	49	0	94	0.05	_	_
rkansas	0	0	0	0	_	- 0.00	4.00
alifornia	477	115	1,527	1,604	0.06	0.09	1.20
olorado	5,028	3,189	107	5,955	0.40	1.38	0.72
Connecticut	0	0,100	0	0,000	-	_	-
elaware	0	Ō	Ō	0	_		_
istrict of Columbia	0	0	0	0	_		_
lorida	435	220	1,019	1,130	0.99	0.36	2.14
Georgia	619	396	3,055	3,142	0.05	0.07	1.26
lawaii	0	0	0	0	_	_	_
laho	0	0	0	0	_		_
inois	2,409	876	423	2,598	1.16	2.06	0.34
ndiana	1,249	678	2,953	3,277	0.24	0.51	0.41
owa	141	618	58	637	0.07	0.11	0.79
ansas	1,179	1,165	635	1,775	0.50	1.69	1.32
entucky	201	207	95	304	0.11	0.14	5.51
ouisiana	340	10,908	7,499	13,241	0.38	0.15	0.02
laine	0	0	0	0	- -	-	- 0.02
laryland	6	33	213	215	0.01	0.01	0.30
lassachusetts	177	284	1,008	1,062	0.09	0.10	0.64
lichigan	0	0	0	0	_	_	_
linnesota	1,295	896	1,186	1,971	0.16	0.18	0.20
lississippi	302	262	645	759	0.17	0.46	0.21
lissouri	476	365	180	626	0.18	0.11	0.89
Iontana	3	0	0	3	0.01	0.02	0.03
lebraska	93	18	67	116	0.04	0.10	0.01
levada	0	0	0	0	-	0.10 —	
lew Hampshire	Ö	0	0	Ő	_	_	_
•							
ew Jersey	0	0	0	0	_		_
lew Mexico	543	311	794	1,011	0.56	0.98	_
lew York	8,695	4,981	4,778	11,102	0.08	0.08	0.21
lorth Carolina	602	26	385	715	0.02	0.06	0.14
orth Dakota	0	0	0	0	_	_	_
hio	1,428	80	126	1,436	0.28	0.13	0.32
klahoma	388	838	391	1,003	0.41	0.06	1.73
Pregon	0	0	0	1,003	J. + I		- 1.73
ennsylvania	406	288	2,895	2,938	0.13	0.03	0.05
hode Island	0	0	0	2,330	-	-	-
outh Carolina	106	72	234	266	0.37	0.20	0.02
outh Dakota	0	0	0	0	_		-
ennessee	6,551	4,023	3,565	8,474	4.28	4.75	3.80
exas	341	10,915	10,158	14,915	0.05	2.28	0.10
tah	0	0	0	0	_	_	_
ermont	0	0	0	0	_		_
irginia	231	374	200	483	0.21	0.44	1.16
/ashington	0	0	0	0	-	_	_
Vest Virginia	3,561	2,113	165	4,144	2.90	1.54	0.77
Visconsin	3,025	1,772	1,130	3,684	0.40	0.31	0.29
Vyoming	70	197	119	240	0.33	0.34	0.23
Total	13,479	17,389	15,475	26,898	0.14	0.14	0.21

– = Not Applicable.
 Source: Energy Information Administration, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Appendix D

Natural Gas Reports and Feature Articles

Reports Dealing Principally with Natural Gas and/or Natural Gas Liquids

- Natural Gas Annual 1995, DOE/EIA-0131(95), November 1996.
- Natural Gas Annual 1993 Supplement: Company Profiles, DOE/EIA-0131(93/S), February 1995.
- Natural Gas 1996 Issues and Trends, DOE 0560(96), December 1996.

Other Reports Covering Natural Gas, Natural Gas Liquids, and Other Energy Sources

- Monthly Energy Review, DOE/EIA-0035. Published monthly. Provides national aggregate data for natural gas, natural gas liquids, and other energy sources.
- Short-Term Energy Outlook, DOE/EIA-0202. Published quarterly. Provides forecasts for next six quarters for natural gas and other energy sources.
- Natural Gas 1995: Issues and Trends, DOE/EIA-0560(95). November 1995.
- U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves - 1995 Annual Report, DOE/EIA-0216(95)/Advance Summary, October 1996.
- Annual Energy Review 1995, DOE/ EIA-0384(95), July 1996. Published annually.
- Annual Report to Congress 1995 DOE/ EIA-01733(95), July 1996. Published annually.
- Annual Energy Outlook 1996, DOE/ EIA-0383(96), January 1996. Published annually.

Selected One-Time Natural Gas and Related Reports

- The Value of Underground Storage in Today's Natural Gas Industry, DOE/EIA-0591, March 1995.
- Natural Gas Productive Capacity for the Lower 48 States, 1980 through 1995, DOE/EIA-0542(95), July 1994
- Largest U.S. Oil and Gas Fields, DOE/EIA-TR-0567, August 1993.
- Energy Policy Act Transportation Rate Study, DOE/EIA-0571, October 1993.
- Energy Policy Act Transportation Study: Interim Report of Natural Gas Flows and Rates, DOE/EIA-0602, October 1995.

Selected and Recurring Natural Gas and Related Data Reference Reports

- Directory of Energy Data Collection Forms, DOE/EIA-0249(95), January 1996.
- Oil and Gas Field Code Master List, 1995, EIA-0370(95), December 1996.

Feature Articles

March 1995

The Comparability of Resource and Reserve Data for Crude Oil, Natural Gas, Coal, and Uranium

(Clarifies which terms are equivalent among the four major energy minerals in the United States.)

July 1995

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

June 1996

Natural Gas Industry Restructuring and Data Collection

(Discusses how restructuring of the natural gas industry has impacted the natural gas data collection efforts.)

July 1996

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

November 1996

U.S. Natural Gas Imports and Exports - 1995

(Contains final 1995 data on all U.S. imports and exports of natural gas.)

December 1996

Crosswell Seismology -- A View from Aside

(Discusses crosswell seismology and its geologic and economic implications for the domestic oil and gas industry.)

May 1997

Restructuring Energy Industries: Lessons from Natural Gas

(Compares and contrasts the natural gas and electric power industries.)

July 1997

Intricate Puzzle of Oil and Gas "Reserves Growth"

(Discusses the factors that affect ultimate recovery estimates of a field or reservoir.)

August 1997

Natural gas Residential Pricing Developments During the 1996-97 Winter

(Discusses key factors that affect pricing patterns, highlights the effects of weather, utilization patterns of natural gas storage, and pricing mechanisms used in natural gas markets.)

December 1997

Recent Trends in Natural Gas Spot Prices

(Focuses primarily on conditions and developments in the East Consuming Region and their connection to prices at the Henry Hub in the Producing Region.)

March 1998

EIA Corrects Errors in EIA's Drilling Activity Estimates Series

(Discusses and corrects errors in EIA's monthly and annual estimates of oil and gas drilling activity.)

Special Focuses

January 1997

Natural Gas Productive Capacity

(Analyzes monthly natural gas wellhead productive capacity in the lower 48 States from 1985 and 1996 and project this capacity for 1996 and 1997.)

Outlook for Natural Gas Through 2015

(Presents an outlook for natural gas through 2015.)

August 1997

Worldwide Natural Gas Supply and Demand And the Outlook For Global LNG Trade

(Focuses on natural gas into the next century with emphasis on world natural gas supply and demand to 2015.)

September 1997

Advance Summary: U.S. Crude Oil, Natural Gas, and Natural gas Liquids Reserves, 1996 Annual Report -Advance Summary

(Focuses on proved reserves of domestic crude oil, natural gas, and natural gas liquids.)

Special Reports

March 1997

Natural Gas Analysis and Geographic Information Systems

(Explores how geographic information system techniques and methodologies are being used by the Energy Information Administration.)

April 1997

Natural Gas Pipeline and System Expansions

(Examines recent expansions to the North American natural gas

Natural Gas 1996: Highlights

(Reviews data for 1996 based on Energy Information Administration surveys.)pipeline network.)

July 1997

Revisions to Monthly Natural Gas Data

(Discusses the revision errors for natural gas data.)

August 1997

U.S. Natural gas Imports and Exports - 1996

(Contains final 1996 data on all U.S. imports and exports of natural gas.)

September 1997

U.S. Underground Storage of Natural Gas in 1997: Existing and Proposed

(Examines recent and proposed expansions of underground natural gas storage capacity and deliverability in the United States as of September 1, 1997.)

October 1997

Comparison of Natural Gas Storage Estimates from the EIA and AGA

(Compares EIA and AGA estimates from January 1994 through July 1997.)

April 1998

Natural Gas 1997: A Preliminary Summary

(Reviews data for 1997 based on Energy Information Administration surveys.)

Appendix E

Technical Contacts

Section	Tables		Principal Data Sources	Technical Contact
Summary Statistics: Natural Gas Production	1, 2, 3	Monthly: Annual:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119
Extraction Loss	1	Monthly: Monthly: Annual:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers" EIA computations Form EIA-816, "Monthly Natural Gas Liquids Report" and Form EIA-64A, "Annual Report of	Roy Kass (202) 586-4790 Margo Natof (202) 586-6303
			the Origin of Natural Gas Liquids Production"	
Supplemental Gaseous Fuels	2	Monthly: Annual:	EIA computations Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition"	Margo Natof (202) 586-6303
Imports and Exports	2	Monthly: Annual:	EIA computations Office of Fossil Energy, U.S. Department of Energy, "Natural Gas Import and Exports"	Linda Cook (202) 586-6306
Price: City Gate, Residential, Commercial, and Industrial	4	Monthly:	Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers"	Roy Kass (202) 586-4790
Wellhead	4	Monthly: Annual:	EIA computations Form EIA-895, "Monthly Quantity and Value of Natural Gas Report"	Sylvia Norris (202) 586-6106
Electric Utility	4	Monthly:	Form FPC-423, "Cost and Quality of Fuels for Electric Power Plants"	Roy Kass (202) 586-4790
Summary of Natural Gas Imports and Exports Producer Related Activities:	5,6	Monthly:	Quaterly Natural Gas Import and and Export Sales and Price Report	Linda Cook (202) 586-6306
Natural Gas Production	7,8	Monthly:	EIA-895, "Monthly Quantity of Natural Gas Report"	Sharon Belcher (202) 586-6119

Underground Storage:	9, 10, 11 12, 13, 14	Monthly:	Forms FERC-8 and EIA-191, "Underground Gas Storage Report"	Carol Jones (202) 586-6168
Distribution and Consumption:				
Deliveries to:				
Residential,	15	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Commercial,	16		Natural Gas Purchases and Deliveries	(202) 586-4790
Industrial,	17		to Consumers"	
Electric Utility,	18		Form FERC-423, "Cost and Quality	
All Consumers	19		of Fuels for Electric Power Plants"	
Average Price to:				
City Gate,	20	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Residential,	21	Wollding.	Natural Gas Purchases and Deliveries	(202) 586-4790
Commercial,	22		to Consumers"	(202) 300-4770
Industrial,	23		Form FERC-423, "Cost and Quality	
Electric Utility	24		of Fuels for Electric Power Plants"	
Onsystem Sales	25	Monthly:	Form EIA-857, "Monthly Report of	Roy Kass
Onsystem Bales	23	wioniny.	Natural Gas Purchases and Deliveries	(202) 586-4790
			to Consumers"	(202) 380-4790
Heating Degree Days	26	Seasonal:	National Oceanic and Atmospheric	Patricia Wells
			Administration	(202) 586-6077
Highlights				
				Mary Carlson
				(202) 586-4749

Appendix F

Natural Gas Electronic Products

In addition to printed publications, the Energy Information Administration distributes information concerning the natural gas industry in a variety of electronic formats through several media. Two main types of products are available electronically: *viewable documents* that may be read or printed; and *post-processable files* that may be directly used as input to a computer application without additional keying and checking of data.

Viewable documents represent complete or selected sections of publications including text, tables and graphs. They may be as specific as single tables or as general as an entire publication. Post-processable documents on the other hand are either macro-level representations of information in published tables or micro-level respondent information representing responses on a specific nonconfidential survey.

The media used to distribute these electronic publications include: (1) The Energy Information Administration's Internet site (http://www.eia.doe.gov or ftp://ftp.eia.doe.gov); (2) Dial-in access through the Energy Information Administration's EPUB electronic bulletin board or through the Economic Bulletin Board of the Department of Commerce and the COGIS system; (3) The Energy Information Administration's quarterly CD-ROM(Info-Disk); (4) The Energy Information Admi- nistration's Fax on Demand System; and (5) diskettes.

	Internet	Dial-In	InfoDisk	Fax	Diskette
ANNUAL PUBLIC			ı mozion	1	<u>Distrocco</u>
Natural Gas Annual, Volume 1, 1994 Provides information on supply, and disposition of natural gas in the United States.Information is provided nationally, regionally, and by State for 1994.	V P		V P		P
Natural Gas Annual, Volume 2, 1994 Contains historical information about supply and disposition of natural gas at the national, regional, and State level as well as prices at selected points in the flow of gas from wellhead to burnertip.	P		Р		P
Natural Gas 1995: Issues and Trends Addresses current issues affecting the natural gas industry and markets, and analyzes trends in the most recent natural gas data.	V		V		
Natural Gas 1994: Issues and Trends Provides an overview of the natural gas industry in 1993 and early 1994, focusing on the overall ability to deliver gas under the new regulatory mandates of the Federal Energy Regulatory Commission's Order 636.	V		V		
Oil and Gas Products List 1994-1995 Brief descriptions of the various information products prepared by the Office of Oil and Gas.	V		V		
U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves Annual Report 1994 1994 national and State estimates of reserves, reserve changes, and production, plus industry highlights.	V		V		
MONTHLY PUBLI	CATIONS				
Natural Gas Monthly, from September 1995 forward. Entire Publication in viewable format	V		V		

				1	
	Internet	Dial-In	InfoDisk	Fax	Diskette
OTHER PUBLIC.	ATIONS				
Natural Gas 1995: Preliminary Highlights This Special Focus, which was featured in the April 1996 issue of the Natural Gas Monthly, presents events that affected the natural gas industry during 1995.	V	P		V	
Energy Policy Act Transportation Study: Interim Report on Natural Gas Flow and Rates (EPACT) Analysis of natural gas transportation rates and distribution patterns for the period from 1988 through 1994.	V		V		
Oil Production Capacity Expansion Cost for the Persian Gulf Quantifies the cost of expanding oil production capacity for the Persian Gulf based on geologic plays and fields rather than country-level economics. Development costs and volumes are estimated for the next 15 years.	V		V		
Costs and Indices for Domestic Oil and Gas Field Equipment and Production Operations 1990-1993 Cost of equipment and operation of oil and gas wells in the lower 48 States.	V		V		
Drilling Sideways- A Review of Horizontal Well Technology and the Domestic Application April 1993 report presenting salient aspects of current and near-future horizontal drilling and completion technology.	V		V		
International Oil and Gas Exploration and Development Compilation of country-level data and assessment of regional trends relating to upstream aspects of global oil and gas supply.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1984-1996 Analysis of monthly natural gas wellhead productive capacity.	V		V		
Natural Gas Productive Capacity for the Lower 48 States 1980-1995 Analysis of monthly natural gas wellhead productive capacity.	V		v		
Oil and Gas Field Code Master List Comprehensive listing of U.S. oil and gas field names as of November 1995.	V		V		
Oil and Gas Resources of the Fergana Basin (Uzbekistan, Tadzhikistan, and Kyrgysztan) Reservoir level assessments of oil and gas ultimate recovery in the former Soviet Union area.	V		V		
The Value of Underground Storage in Today's Natural Gas Industry Explores the significant and changing role of storage in the industry.	V		V		
U.S. Oil and Gas Development in the Early 1990's Analyses of the growing prominence of smaller energy companies in U.S. oil and gas production	V		V		
ANNUAL DA	ATA				
Natural Gas Supply and Disposition, by State 1994	V P	V P		V	

	_				
	Internet	Dial-In	InfoDisk	Fax	Diskette
Natural Gas Summary, United States by Year 1990-1994	V P	V P		V	
1994 Natural Gas Annual Volume 1 data Self-extracting file containing data (in comma-delimited format) that appear in the tables in Volume I of the 1994 Natural Gas Annual.	P		P		P
1994 Natural Gas Annual Volume 2 data Self-extracting file containing historical information (in comma-delimited format) found in the tables in Volume II of the 1994 Natural Gas Annual. Annual historical data at the national level are presented for 1930-1994. Annual information by State and region is presented for 1967-1994.	P		Р		P
1993 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1993.	P				Р
1994 Data reported on Form EIA-176 A self-extracting compressed file containing data reported on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition" for 1994.	P				P
Data archive of historical reserves estimates for U.S. Crude Oil, Natural Gas, and Natural Gas Liquids. National, State, and State subregion data published in the reserves balance tables of U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves from 1977 forward.	P				P
MONTHLY DA	ATA				
Natural Gas Production, United States by Month 1989-forward	P	P		V	
Natural Gas Supply and Disposition, 1989-forward	P	P		V	
Natural Gas Imports and Exports 1989-forward	P	P		V	
Natural Gas Underground Storage: United States Total by Month 1989-forward	P	P		V	
Natural Gas Prices: United States Total by Month 1989-forward	P	P		V	
Natural Gas Consumption by Sector: United States Total by Month, 1989-forward	P	P		V	
SELF-EXTRACTING COMPRESSEI	D DATA FILE A	ARCHIVES			
Natural Gas Consumption and Prices, for most recent 2-3 years	P	P			
Natural Gas Consumption and Prices, for 1984-1992	P	P			
OTHER REPO	RTS				
Natural Gas Weekly Market Update Analysis of current price, supply and storage data along with a two week snapshot of the weather in four distinct metropolitan areas.	V			V	

Glossary

Balancing Item: Represents the difference between the sum of the components of natural gas supply and the sum of the components of natural gas disposition. These differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems which vary in scope, format, definitions, and type of respondents.

Base (Cushion) Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

British Thermal Unit (Btu): The heat required to raise the termperature of one pound of water by one degree Fahrenheit at or near 39.2 degrees Fahrenheit.

City-gate: A point or measuring station at which a gas distribution company receives gas from a pipeline company or transmission system.

Commercial Consumption: Gas used by nonmanufacturing organizations such as hotels, restaurants, retail stores, laundries, and other service enterprises, and gas used by local, State, and Federal agencies engaged in nonmanufacturing activities.

Depletion: The loss in service value incurred in connection with the exhaustion of the natural gas reserves in the course of service.

Depreciation: The loss in service value not restored by current maintenance, incurred in connection with the consumption or respective retirement of a gas plant in the course of service from causes that are known to be in current operation and against which the utility is not protected by insurance; for example, wear and tear, decay, obsolescence, changes in demand and requirements of public authorities, and the exhaustion of natural resources.

Dry Natural Gas Production: Marketed production less extraction loss.

Electric Utility Consumption: Gas used as fuel in electric utility plants.

Exports: Natural gas deliveries out of the continental United States and Alaska to foreign countries.

Extraction Loss: The reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Flared: The volume of gas burned in flares on the base site or at gas processing plants.

Gross Withdrawals: Full well stream volume, including all natural gas plant liquid and nonhydrocarbon gases, but excluding lease condensate. Also includes amounts delivered as royalty payments or consumed in field operations.

Imports: Natural gas received in the Continental United States (including Alaska) from a foreign country.

Independent: Producers: Any person who is engaged in the production or gathering of natural gas and who sells natural gas in interstate commerce for resale but who is not engaged in the transportation of natural gas (other than gathering) by pipeline in interstate commerce.

Industrial Consumption: Natural gas used by manufacturing and mining establishments for heat, power, and chemical feedstock.

Interstate Companies: Natural gas pipeline companies subject to FERC jurisdiction.

Intransit Deliveries: Redeliveries to a foreign country of foreign gas received for transportation across U.S. territory and deliveries of U.S. gas to a foreign country for transportation across its territory and redelivery to the United States.

Intransit Receipts: Receipts of foreign gas for transportation across U.S. territory and redelivery to a foreign country and redeliveries to the United States of U.S. gas transported across foreign territory.

Intrastate Companies: Companies not subject to FERC jurisdiction.

Lease and Plant Fuel: Natural gas used in well, field, lease operations and as fuel in natural gas processing plants.

Liquefied Natural Gas (LNG): Natural gas that has been liquefied by reducing its temperature to minus 260 degrees Fahrenheit at atmospheric pressure.

Marketed Production: Gross withdrawals less gas used for repressuring, quantities vented and flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations. See Explanatory Note 1 for discussion of coverage of data concerning nonhydrocarbon gases removed.

Native Gas: Gas in place at the time that a reservoir was converted to use as an underground storage reservoir as in contrast to injected gas volumes.

Natural Gas: A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or solution with oil in natural underground reservoirs at reservoir conditions.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Onsystem Sales: Sales to customers where the delivery point is a point on, or directly interconnected with, a transportation, storage, and/or distribution system operated by the reporting company.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Repressuring: The injection of gas into oil or gas formations to effect greater ultimate recovery.

Residential Consumption: Gas used in private dwellings, including apartments, for heating, cooking, water heating, and other household uses.

Salt Cavern Storage Field: A storage facility that is a cavern hollowed out in either a salt "bed" or "dome" formation.

Storage Additions: The volume of gas injected or otherwise added to underground natural gas or liquefied natural gas storage during the applicable reporting period.

Storage Withdrawals: Total volume of gas withdrawn from underground storage or liquefied natural gas storage during the applicable reporting period.

Supplemental Gaseous Fuels Supplies: Synthetic natural gas, propane-air, refinery gas, biomass gas, air injected for stabilization of heating content, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): A manufactured product chemically similar in most respects to natural gas, that results from the conversion or reforming of petroleum hydrocarbons and may easily be substituted for or interchanged with pipeline quality natural gas.

Therm: One-hundred thousand British thermal units.

Underground Gas Storage Reservoir Capacity: Interstate company reservoir capacities are those certificated by FERC. Independent producer and intrastate company reservoir capacities are reported as developed capacity.

Vented Gas: Gas released into the air on the base site or at processing plants.

Wellhead Price: Represents the wellhead sales price, including charges for natural gas plant liquids subsequently removed from the gas, gathering and compression charges, and State production, severance, and/or similar charges.

Working (Top Storage) Gas: The volume of gas in an underground storage reservoir above the designed level of the base. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.